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# **The 1981 Purex Distribution Data Index**

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KERNFORSCHUNGSZENTRUM KARLSRUHE

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THE 1981 PUREX DISTRIBUTION DATA INDEX

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## Abstract

Distribution coefficients of U(VI), U(IV), Pu(IV), Pu(III), Np(VI), Np(IV) and nitric acid between aqueous nitrate solutions and 30 vol% TBP in an alkane diluent were systematically gathered from the available literature. A preceding report (KfK 2536, 1977) was revised and greatly extended by recently published data and new unpublished measurements. The compilation of this report includes a total number of 4285 distribution coefficients. Part I contains data on the distribution of U(VI), Pu(IV) and nitric acid, part II contains data on U(VI) and U(IV), part III contains data on U(VI), Pu(IV), Pu(III) and nitric acid in the presence of hydrazinium nitrate, part IV contains data on Np(VI) and Np(IV) with and without the presence of U(VI). In each part of the report the distribution data are grouped according to increasing equilibrium concentrations of nitric acid and subgrouped along the respective metal concentrations in the aqueous phase. Each subgroup is segmented in 2 temperature ranges. Moreover, the data of part I are also ordered according to their origin. The data in part I were critically evaluated and apparently erroneous distribution coefficients were detected by a combined grouping-modelling procedure.

## Zusammenfassung

### SAMMLUNG VON PUREX-VERTEILUNGSDATEN (AUSGABE 1981)

Verteilungskoeffizienten von U(VI), U(IV), Pu(IV), Pu(III), Np(VI), Np(IV) und Salpetersäure zwischen wässrigen Nitratlösungen und 30 Vol% TBP in aliphatischen Verdünnungsmitteln wurden in einer Datensammlung zusammengestellt. Ein früherer Bericht (KfK 2536, 1977) wurde durch neu veröffentlichte Daten und durch eigene unveröffentlichte Messungen wesentlich erweitert. Die Sammlung umfaßt nun insgesamt 4285 Verteilungskoeffizienten. Teil I enthält Daten über die Verteilung von U(VI), Pu(IV) und  $\text{HNO}_3$ , Teil II Daten über U(VI) und U(IV), Teil III Daten über U(VI), Pu(IV), Pu(III) und  $\text{HNO}_3$  in Anwesenheit von Hydrazinnitrat, Teil IV Daten über Np(VI) und Np(IV) mit und ohne U(VI). In jedem Teil der Sammlung wurden die Daten nach steigenden wässrigen Gleichgewichtskonzentrationen von  $\text{HNO}_3$  vorsortiert und nach steigenden Metallkonzentrationen feinsortiert. Jede Untergruppe wurde in 2 Temperaturbereiche gegliedert. Zusätzlich wurden die Daten von Teil I nach ihrer Herkunft geordnet. Die Daten wurden durch Gruppierungs- und Modellierungstechniken kritisch geprüft. Offenbar fehlerhafte Meßergebnisse wurden in der Sammlung markiert.

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## Introduction

Extraction of actinide nitrates by a solution of TBP in an organic diluent is an important part of the reprocessing of spent nuclear fuel in the Purex process. A good performance of the extraction part of the process needs a well elaborated flowsheet. The optimum flowsheet conditions and the effect of variations of process variables may be predicted (and only then experimentally tested), if a reliable computer program for the calculation of concentration profiles in mixer-settlers and extraction columns is available. Knowledge of distribution coefficients of actinide nitrates and nitric acid at any reasonable temperature is necessary for the calculation of concentration profiles. The distribution coefficients have to be calculated using a mathematical model, which smooths and generalizes distribution data published for different concentration ranges. To develop such a model we screened the literature for existing data as thoroughly as possible.

Data available up to 1977 were published in a previous report (1).

Since 1977 many additional data have become available or previous data originally only presented in graphical form have been published numerically. Like the 1977 report the present edition contains also distribution data which have not yet been published.

With respect to the practical importance this data index is limited to systems involving:

- a 30 vol% solution of TBP in an aliphatic diluent, mostly kerosene, as the starting organic phase (solvent).
- no metal salt like aluminium nitrate in the aqueous phase, with nitric acid and in some cases hydrazinium nitrate as the only salting out agents used.
- the distributed metals in defined valency states.

The data so selected were not further classified according to molecular size and structure of the diluent. Results of earlier

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(1) G. Petrich and Z. Kolarik, KfK-2536, (1977)



investigations show that no significant effect of these factors on the distribution coefficients of U(VI), Pu(IV) and nitric acid is to be expected (2).

It even appears that distribution coefficients measured by various investigators with the same alkane diluent may differ more than distribution coefficients measured by the same investigator with various alkane diluents.

The present compilation has not only been extended to include distribution data on uranium(VI) and neptunium(VI) as promised in the 1977 report, but also on neptunium(IV) and plutonium(III) in the presence as well as in the absence of uranium(VI).

#### Detection of outliers

The final objective of this data collection is to develop a mathematical model for the distribution equilibria which will be functions of the respective independent variables, i.e. temperature and aqueous concentrations of the solutes. Any anomalous observations or outliers in the data which form the basis for the development of such a model may cause substantial displacements in the estimated model parameters. Independent of the applied modelling procedure, erroneous data incorporated in valid observations may lead to the unjustified rejection of a model structure. It is therefore necessary to homogenize the data before a functional relationship is fitted to the observations and to discard anomalous observations which can result from even carefully prepared experiments due to a change of uncontrolled experimental conditions.

Such a critical evaluation of the data is only possible when a sufficiently large number of distribution coefficients is available and when the valency state of the distributed metal species is not

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(2) see e.g. V.B. Shevchenko et al., Radiokhimiya 2, 281 (1960) and A.A. Nemodruk and L.P. Glukhova, Russ. J. Inorg. Chem. 8, 1370 (1963)

expected to change during the experiment. Thus, only part I of the data index was subjected to a critical treatment.

It is not always a simple task to discriminate between a real outlier and a mere deviation from an assumed functional relationship that still has to be validated. For the data of part I the analysis is further complicated by the facts that

- the dependent variables are functions of 4 independent variables. The resulting 5-dimensional space does not lend itself to graphical inspection.
- the data are not homogeneously distributed over the data space but are in fact clustered in concentration ranges that have traditionally been of most interest to the experimenter.

In view of the central significance of a distribution model for the simulation of all extractor types we therefore decided to apply a 3-step procedure on the data of part I in order to eliminate wild observations:

- Step 1: Inspection of the data grouped in narrow concentration and temperature ranges to crudely prune the observations.
- Step 2: Least-square fit of the data remaining after step 1 to two functional relationships based on two different approaches for the description of the chemistry of the system.
- Step 3: Various repetitions of step 2 with the previously discarded data reincorporated.

Only if both models and the grouping technique suggest that a data point is erroneous, this distribution coefficient has been marked as an outlier by a negative sign in the tables. Since step 1 requires narrow ranges for the independent variables, this method ensured that no data from very sparsely populated regions were discarded, except where chemical reasoning made the measured value highly improbable.

Details of the method are described in the 1977 edition.

Organization of the tables: part I

1. To facilitate retrieval, the distribution data of part I.1 have been printed in concentration and temperature groups as follows:
  - 1.1 Rough grouping according to the aqueous  $\text{HNO}_3$ -concentrations with lower and upper concentration limits given by any 2 adjacent values of  
0.0, 0.01, 0.1, 0.25, 0.45, 0.60, 0.90, 1.10, 1.80, 2.10, 2.75, 3.05, 3.80, 4.10, 5.10 and 11 M.
  - 1.2 Within each  $\text{HNO}_3$ -group the data are subgrouped with aqueous uranium(VI) concentration range limits given by  
0.0, 0.2, 2, 7.5, 15, 25, 50, 100, 350 g/l.
  - 1.3 Within each uranium(VI)-subgroup the data are again subdivided in temperatures up to  $30^\circ\text{C}$  and above  $30^\circ\text{C}$ . Temperature subgroups are separated by a blank line.
  - 1.4 Within each temperature group the data are rearranged along increasing aqueous plutonium(IV) concentrations.
2. For cross reference of the data a second set of tables has been prepared in part I.2 where all data of part I.1 are rearranged along ascending source numbers.
3. Headings above the columns represent:

|        |   |
|--------|---|
| SOURCE | A reference number pointing to the origin of the data, c.f. references and "source number codes". |
| U-AQU  | Aqueous uranium(VI) equilibrium concentration in g/l.   |
| PU-AQU | Aqueous plutonium(IV) equilibrium concentration in g/l.   |
| H-AQU  | Aqueous $\text{HNO}_3$ equilibrium concentration in mol/l.  |
| D-U    | Distribution coefficient of uranium(VI) for 30 % TBP.   |
| D-PU   | Distribution coefficient of plutonium(IV) for 30 % TBP.   |
| D-H    | Distribution coefficient of $\text{HNO}_3$ for 30 % TBP.  |
| T      | Temperature in $^\circ\text{C}$ .   |
4. To improve readability of the tables, blanks are printed
  - for U-AQU (or PU-AQU) whenever the aqueous uranium (or plutonium) concentration is less than 0.005 g/l (zero concentration or traces only).
  - for D-U, D-PU, D-H if no distribution coefficient has been

reported for this measurement.

5. A negative sign of the distribution coefficient marks that we suspect this value to be erroneous.
6. Since the distribution coefficients of U(VI) and HNO<sub>3</sub> are not affected by trace amounts of neptunium, the corresponding data of part IV are also included in part I.
7. For technical reasons the number of decimal places was held constant for each column. The last decimal places may have no physical significance in some cases.

#### Organization of the tables: parts II, III and IV

These parts are organized in analogy to part I where applicable. The grouping of the data according to concentration ranges and the column headers are self-explaining. Since the tables are sufficiently short, no source number listings are included here.

#### Source number codes

Each measurement has been given a 5 digit code number which is referred to as "source number".

The first digit of a source number is a code for the country where the measurement originated:

- 1 USA
- 2 Great Britain
- 3 France
- 4 USSR
- 5 Germany
- 6 Japan
- 7 Belgium
- 8 India
- 9 others (China, Czechoslovakia)

Some statistics of the tables

| Edition |      |   |
|---------|------|---|
| 1977    | 1981 |   |
|         |      | Total number of measurements:           |
| 1419    | 2673 | all temperatures                        |
| 418     | 617  | temperatures greater than 30°C          |
|         |      | Distribution coefficients:              |
| 796     | 1492 | U(VI)                                   |
| 0       | 124  | U(IV)                                   |
| 753     | 986  | Pu(IV)                                  |
| 0       | 44   | Pu(III)                                 |
| 0       | 194  | Np(VI)                                  |
| 0       | 205  | Np(IV)                                  |
| 464     | 1240 | HNO <sub>3</sub>                        |
| 2013    | 4285 | total                                   |
|         |      | Outliers in part I:                     |
| 53      | 123  | U(VI)                                   |
| 54      | 95   | Pu(IV)                                  |
| 75      | 259  | HNO <sub>3</sub>                        |
| 182     | 477  | total                                   |
|         |      | Determined in same measurement:         |
| 283     | 402  | U(VI) and PU(IV)                        |
| 248     | 359  | U(VI) and HNO <sub>3</sub>              |
| 108     | 394  | Pu(IV) and HNO <sub>3</sub>             |
| 45      | 241  | U(VI) and Pu(IV) and HNO <sub>3</sub>   |
| 0       | 70   | U(VI) and U(IV)                         |
| 0       | 3    | U(VI) and Pu(III) and HNO <sub>3</sub>  |
| 0       | 27   | Pu(IV) and Pu(III) and HNO <sub>3</sub> |

Range of aqueous equilibrium concentrations and temperature

| Part I | Part II | Part III | Part IV |   |
|--------|---------|----------|---------|---|
| 0-349  | 0-101   | 0-2.2    | 0-211   | g/l U(VI)                                       |
| -      | 0.4- 91 | -        | -       | g/l U(IV)                                       |
| 0-114  | -       | 0-5.3    | -       | g/l Pu(IV)                                      |
| -      | -       | 0-36     | -       | g/l Pu(III)                                     |
| -      | -       | -        | traces  | Np(VI, IV)                                      |
| 0-10.3 | 0.6-5.8 | 0.1-0.6  | 0.1-11  | M HNO <sub>3</sub>                              |
| -      | -       | 0-0.8    | -       | M N <sub>2</sub> H <sub>5</sub> NO <sub>3</sub> |
| 0-72   | 25      | 35       | 25      | °C  |

References

Source - Nr

- 10001-10004 J.R. Flanary,  
Progr. Nucl. Energy, Ser. III, 1, 195 (1956)
- 10011-10024 ORNL-1141 (1952),  
taken from L.L.Smith, DP-700 (1962), p. 66
- 10031-10033 KAPL-1002 (1954),  
taken from L.L.Smith, DP-700 (1962), p. 72
- 10042-10049 D.G. Karraker, unpublished results,  
taken from L.L.Smith, DP-700 (1962), p. 63
- 10051-10055 D.R. Olander, L. Donadieu and M. Benedict,  
A.I.Ch.E. Journal 7, 152 (1961)
- 11001-11057 J.W. Coddling, W.O. Haas, Jr. and F.K. Heumann,  
Ind. Eng. Chem. 50, 145 (1958)
- 12001-12014 W. Davis, Jr.,  
Nucl. Sci. Eng. 14, 159 (1962)
- 12021-12028 W. Davis, Jr., J. Mrochek and R.R. Judkins,  
J. Inorg. Nucl. Chem. 32, 1689 (1970)
- 13001-13051 T.H. Sidall, III, S.G. Parker and W.E. Prout,  
DP-53 (1957)
- 13061-13072 E.K. Dukes,  
DP-250 (1957)
- 13081-13086 E.K. Dukes,  
J. Am. Chem. Soc. 82, 9 (1960)
- 13091-13093 KAPL-1002 (1954),  
taken from L.L.Smith, DP-700 (1962), p. 72
- 14001-14011 G.A. Burney,  
DP-158 (1956)
- 17001-17028 G.E. Benedict, T.R. McKenzie and G.L. Richardson,  
HW-SA-1963 (1960)
- 17101-17126 J.R. Flanary, G. W. Parker,  
Progr. Nucl. Energy, Ser. III,  
Process Chem. 2, 501 (1958)
- 17201-17207 T.H. Sidall III, E.K.Dukes,

- J. Am. Chem. Soc. 81, 790 (1959)
- 17301-17307 D.A. Orth, J.M. McKibben, W.C. Scotten,  
Proc. ISEC 71, p. 514
- 19001-19010 J.R. Flanary,  
Progr. Nucl. Energy, Ser. III, 1, 195 (1956)
- 19011-19024 HW-27727 (1953),  
taken from L.L. Smith, DP-700 (1962), p. 73
- 19031-19036 J.R. Flanary et al., ORNL-1481 (1953),  
taken from R.L. Stevenson and P.E. Smith, in Reactor  
Handbook, Vol. 2, Interscience Publ., N.Y.(1961), p. 156
- 20001-20015 P.E. Burns and C. Hanson,  
J. Appl. Chem. 14, 117 (1964)
- 20018-20029 J.H. Miles and B.P.K. Sharpe,  
AERE-M 2635 (1975)
- 20031-20095 J.K. Smith and P.D. Wilson,  
BNFL-Memo 284 (W) (1975)
- 30001-30006 M. Germain, D. Gourisse and M. Sougnez,  
J. Inorg. Nucl. Chem. 32, 245 (1970)
- 30021-30035 N. Damien, unpublished results,  
taken from P. Leroy, CEA-R 3207 (1967)
- 30041-30072 F. Regnaud, unpublished results,  
taken from G. Vergnaud, CEA-R 2946 (1966)
- 31001-32026 J. Durandet, X. Talmont, P. Renault, Y.L. Gladel, P. Regnaut  
Chim. Ind., Genie Chim. 86, 29 (1961)
- 33001-35030 Unpublished results of work done at the  
Commissariat a l'Énergie Atomique (CEA), France
- 35031-35041 P. Moszkowicz,  
CEA-R 4735 (1976)
- 37001-37025 M. Germain, D. Gourisse and M. Sougnez,  
J. Inorg. Nucl. Chem. 32, 245 (1970)
- 37031-37043 H. Masson,  
CEA-R 4820 (1977)
- 38001-38069 M. Germain, D. Gourisse, M. Sougnez,  
J. Inorg. Nucl. Chem. 32, 245 (1970);  
D. Gourisse, Proc. ISEC 71, p.781
- 40001-41081 V.E. Vereshchagin and E.V. Renard,  
At. Energiya 44, 422 (1978)



- 42001-43008 V.E. Vereshchagin and E.V. Renard,  
At. Energiya 45, 45 (1978)
- 43011-43052 V.E. Vereshchagin and E.V. Renard,  
Radiokhimiya 21, 548 (1979)
- 48021-48040 S.M. Karpacheva, L.P. Khorkhorina and A.M. Rozen,  
Zh. Neorg. Khim. 2, 1441 (1957),  
Russ. J. Inorg. Chem. 2, 363 (1957)
- 50001-50009 W. Baehr,  
KfK-797 (1968)
- 50011-50073 H. Schmieder, G. Petrich and A. Hollmann,  
to be published
- 50101-50224 Z. Kolarik and R. Schuler,  
to be published
- 51001-51062 Unpublished results of work done at the  
Institut für Heisse Chemie, Kernforschungszentrum,  
Karlsruhe, Germany
- 51071-51078 W. Ochsenfeld, H. Schmieder, F. Baumgärtner and E. Kuhn,  
KfK-671 (1967)
- 52001-57000 Unpublished results of work done at the  
Institut für Heisse Chemie, Kernforschungszentrum,  
Karlsruhe, Germany
- 57101-57196 Z. Kolarik and N. Pipkin,  
to be published
- 57201-57267 Z. Kolarik and R. Schuler,  
to be published
- 57301-57456 W. Baehr,  
KfK-797 (1968)
- 68001-68014 A. Kaya, T. Segawa, T. Tsujino and T. Aochi,  
PNCT-AR-67, Ann. Rep. Tokai Works 67/68 (1968), p. 21
- 70001-70020 E. Lopez-Menchero, L. Salomon and G. Bardone,  
ETR-183 (1966)
- 70021-70082 E. Lopez-Menchero, W. Drent and G. Magni,  
ETR-101 (1961)
- 80021-81060 N. Srinivasan et al.,  
BARC-432 (1969)
- 82001-82176 N. Srinivasan et al.,  
BARC-428 (1969)

- 83001-83022 A. Ramanujam, V.V. Ramakrishna and S.K. Patil,  
J. Inorg. Nucl. Chem. 40, 1167 (1978)
- 83031-83086 N. Srinivasan et al.,  
BARC-736 (1974)
- 84001-84023 S.V. Bagawde, P.R. Vasudava Rao, V.V. Ramakrishna and  
S.K. Patil,  
J. Inorg. Nucl. Chem. 40, 1913 (1978)
- 90001-90003 S. Havelka and M. Beran,  
UJV 938/63 (1963)
- 91001-91193 X.Y. Wang et al.,  
He Huaxue Yu Fangshe Huaxue 1, 29 (1979)

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 0 TO 0.01 M (1)

AQUEOUS HNO3 FROM 0 TO 0.01 M (2)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H    | T  |
|--------|-------|--------|-------|-------|-------|-----|----|--------|--------|--------|-------|-------|------|--------|----|
| 68001  |       | .05    | .000  |       | -.260 |     | 23 | 12023  | 38.43  |        | .000  | .833  |      |        | 25 |
|        |       |        |       |       |       |     |    | 37040  | 40.47  |        | .010  | .941  |      |        | 25 |
| 91049  | 4.29  |        | .001  | .090  |       |     | 20 | 37041  | 49.99  |        | .010  | 1.010 |      |        | 25 |
| 31011  | 8.45  |        | .000  | .169  |       |     | 20 | 13016  | 29.05  |        | .000  | .323  |      |        | 70 |
| 91062  | 8.70  |        | .005  | -.410 |       |     | 20 | 13015  | 44.52  |        | .000  | .540  |      |        | 70 |
| 91061  | 9.78  |        | .006  | .273  |       |     | 20 |        |        |        |       |       |      |        |    |
| 31012  | 9.88  |        | .000  | .185  |       |     | 20 | 31020  | 56.71  |        | .000  | .928  |      |        | 20 |
| 14005  | 12.62 |        | .000  | -.792 |       |     | 25 | 91097  | 58.91  |        | .001  | .918  |      |        | 20 |
|        |       |        |       |       |       |     |    | 31021  | 62.01  |        | .000  | .939  |      |        | 20 |
| 13018  | 14.05 |        | .000  | .114  |       |     | 70 | 91098  | 64.68  |        | .010  | .890  |      |        | 20 |
|        |       |        |       |       |       |     |    | 31022  | 75.11  |        | .000  | .900  |      |        | 20 |
| 91073  | 16.38 |        | .006  | .446  |       |     | 20 | 31023  | 88.01  |        | .000  | .883  |      |        | 20 |
| 31013  | 16.90 |        | .000  | .369  |       |     | 20 | 12024  | 59.40  |        | .000  | .936  |      |        | 25 |
| 31014  | 18.30 |        | .000  | .429  |       |     | 20 | 37042  | 59.51  |        | .010  | 1.000 |      |        | 25 |
| 31015  | 22.70 |        | .000  | .559  |       |     | 20 | 12025  | 73.66  |        | .000  | .921  |      |        | 25 |
| 12021  | 18.09 |        | .000  | .411  |       |     | 25 | 37043  | 83.31  |        | .010  | .934  |      |        | 25 |
| 37036  | 19.04 |        | .010  | .500  |       |     | 25 | 14008  | 85.69  |        | .000  | .917  |      |        | 25 |
| 90001  | 23.09 |        | .000  | .680  |       |     | 25 | 12026  | 91.02  |        | .000  | .883  |      |        | 25 |
| 37037  | 23.80 |        | .010  | .700  |       |     | 25 |        |        |        |       |       |      |        |    |
|        |       |        |       |       |       |     |    | 70046  | 81.42  |        | .010  | .746  |      | -1.100 | 50 |
| 13017  | 20.95 |        | .000  | .219  |       |     | 70 | 13014  | 53.81  |        | .000  | .602  |      |        | 70 |
|        |       |        |       |       |       |     |    | 13013  | 67.85  |        | .000  | .681  |      |        | 70 |
| 31016  | 28.80 |        | .000  | .705  |       |     | 20 | 13012  | 92.14  |        | .000  | .700  |      |        | 70 |
| 91085  | 32.02 |        | .001  | .764  |       |     | 20 |        |        |        |       |       |      |        |    |
| 31017  | 34.51 |        | .000  | .797  |       |     | 20 | 31024  | 102.22 |        | .000  | .853  |      |        | 20 |
| 31018  | 39.21 |        | .000  | .855  |       |     | 20 | 31025  | 132.12 |        | .000  | .748  |      |        | 20 |
| 31019  | 41.91 |        | .000  | .916  |       |     | 20 | 31026  | 147.52 |        | .000  | .706  |      |        | 20 |
| 37038  | 28.56 |        | .010  | .758  |       |     | 25 | 90002  | 109.52 |        | .000  | .910  |      |        | 25 |
| 12022  | 28.66 |        | .000  | .655  |       |     | 25 | 12027  | 116.80 |        | .000  | .796  |      |        | 25 |
| 37039  | 38.09 |        | .010  | .937  |       |     | 25 | 12028  | 205.61 |        | .000  | .556  |      |        | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 0 TO 0.01 M (3)

AQUEOUS HNO3 FROM 0.01 TO 0.1 M (1)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU | D-H   | T  |
|--------|--------|--------|-------|------|------|-----|----|--------|-------|--------|-------|---------|------|-------|----|
| 90003  | 223.80 |        | .000  | .560 |      |     | 25 | 20018  |       |        | .100  |         |      | .061  | 15 |
|        |        |        |       |      |      |     |    | 20021  |       |        | .100  |         |      | .053  | 20 |
| 13011  | 125.23 |        | .000  | .679 |      |     | 70 | 91013  |       |        | .025  | -34.656 |      |       | 20 |
|        |        |        |       |      |      |     |    | 84001  | .01   |        | .100  | .335    |      |       | 20 |
|        |        |        |       |      |      |     |    | 91003  | .01   |        | .098  | -.484   |      | -.029 | 20 |
|        |        |        |       |      |      |     |    | 91001  | .02   |        | .014  | -.318   |      |       | 20 |
|        |        |        |       |      |      |     |    | 91002  | .02   |        | .056  | -.236   |      |       | 20 |
|        |        |        |       |      |      |     |    | 91015  | .06   |        | .096  | -.547   |      |       | 20 |
|        |        |        |       |      |      |     |    | 91014  | .07   |        | .056  | -.315   |      |       | 20 |
|        |        |        |       |      |      |     |    | 20031  |       |        | .020  |         |      | .013  | 22 |
|        |        |        |       |      |      |     |    | 20032  |       |        | .046  |         |      | .030  | 22 |
|        |        |        |       |      |      |     |    | 20033  |       |        | .092  |         |      | .054  | 22 |
|        |        |        |       |      |      |     |    | 50001  |       |        | .020  |         |      | .025  | 25 |
|        |        |        |       |      |      |     |    | 12001  |       |        | .057  |         |      | .056  | 25 |
|        |        |        |       |      |      |     |    | 12002  |       |        | .074  |         |      | .063  | 25 |
|        |        |        |       |      |      |     |    | 50003  |       |        | .080  |         |      | .063  | 25 |
|        |        |        |       |      |      |     |    | 12003  |       |        | .091  |         |      | .068  | 25 |
|        |        |        |       |      |      |     |    | 35033  |       |        | .095  | -.432   |      |       | 25 |
|        |        |        |       |      |      |     |    | 35034  |       |        | .095  | -.470   |      |       | 25 |
|        |        |        |       |      |      |     |    | 11009  |       |        | .100  |         |      | .045  | 25 |
|        |        |        |       |      |      |     |    | 20024  |       |        | .100  |         |      | .047  | 25 |
|        |        |        |       |      |      |     |    | 35032  |       |        | .095  | -.399   |      |       | 25 |
|        |        |        |       |      |      |     |    | 35031  |       |        | .095  | -.349   |      |       | 25 |
|        |        |        |       |      |      |     |    | 57106  | .09   |        | .096  | .271    |      |       | 25 |
|        |        |        |       |      |      |     |    | 57193  | .09   |        | .098  | .271    |      |       | 25 |
|        |        |        |       |      |      |     |    | 57101  | .11   |        | .052  | .093    |      |       | 25 |
|        |        |        |       |      |      |     |    | 57192  | .11   |        | .052  | .096    |      |       | 25 |
|        |        |        |       |      |      |     |    | 11007  | .19   |        | .097  | .250    |      |       | 25 |
|        |        |        |       |      |      |     |    | 20027  |       |        | .100  |         |      | .043  | 30 |
|        |        |        |       |      |      |     |    | 84002  | .01   |        | .100  | .241    |      |       | 30 |
|        |        |        |       |      |      |     |    | 11052  |       |        | .100  |         | .023 |       | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

AQUEOUS HNO<sub>3</sub> FROM 0.01 TO 0.1 M (2)

AQUEOUS HNO<sub>3</sub> FROM 0.01 TO 0.1 M (3)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU | D-H    | T  |
|--------|-------|--------|-------|-------|-------|-------|----|--------|-------|--------|-------|--------|------|--------|----|
| 11051  |       |        | .015  |       | -.005 |       | 25 | 57104  | 8.83  |        | .070  | .497   |      |        | 25 |
| 51020  |       | 2.06   | .100  |       | .030  |       | 25 | 11045  | 11.67 |        | .050  | .490   |      | -.320  | 25 |
| 51021  |       | 2.10   | .100  |       | -.010 |       | 25 | 53044  | 13.15 |        | .052  | .546   |      |        | 25 |
| 54004  |       | 7.12   | .088  |       | .052  | .136  | 25 |        |       |        |       |        |      |        |    |
| 54003  |       | 10.10  | .080  |       | .074  | -.188 | 25 | 50007  | 14.59 |        | .020  | .274   |      | .025   | 60 |
| 20053  |       |        | .048  |       |       | .020  | 40 | 50002  | 15.90 |        | .020  | .403   |      | .025   | 25 |
| 84003  | .01   |        | .100  | .183  |       |       | 40 | 50004  | 16.00 |        | .080  | -.419  |      | .063   | 25 |
| 84004  | .01   |        | .100  | .144  |       |       | 50 | 48026  | 16.90 |        | .100  | -1.310 |      |        | 25 |
| 20070  |       |        | .050  |       |       | .017  | 60 | 57136  | 20.60 |        | .090  | .883   |      |        | 25 |
|        |       |        |       |       |       |       |    | 53045  | 22.40 |        | .051  | .808   |      |        | 25 |
| 91025  | .37   |        | .071  | -.419 |       | -.148 | 20 | 57134  | 22.80 |        | .050  | .759   |      |        | 25 |
| 11008  | .22   |        | .048  | .085  |       |       | 25 | 48025  | 23.33 |        | .050  | .898   |      |        | 25 |
| 57158  | .28   |        | .090  | .270  |       |       | 25 | 11044  | 23.81 |        | .050  | -.017  |      | .040   | 25 |
| 57154  | .35   |        | .050  | .088  |       |       | 25 | 11046  | 23.81 |        | .050  | -1.090 |      | -.320  | 25 |
| 57159  | .80   |        | .098  | .336  |       |       | 25 |        |       |        |       |        |      |        |    |
| 53041  | .94   |        | .055  | .102  |       |       | 25 | 70043  | 20.71 |        | .011  | .322   |      | -1.000 | 50 |
| 57155  | .96   |        | .056  | .110  |       |       | 25 | 50008  | 15.40 |        | .080  | -.221  |      | .063   | 60 |
| 57160  | 1.26  |        | .095  | .373  |       |       | 25 | 70062  | 18.57 |        | .100  | .449   |      | -.910  | 60 |
| 57156  | 1.38  |        | .054  | .217  |       |       | 25 |        |       |        |       |        |      |        |    |
|        |       |        |       |       |       |       |    | 91086  | 30.02 |        | .049  | .841   |      |        | 20 |
| 91050  | 3.85  |        | .047  | .239  |       | .037  | 20 | 48027  | 35.00 |        | .100  | -1.313 |      |        | 25 |
| 57102  | 2.07  |        | .061  | .198  |       |       | 25 | 48024  | 35.95 |        | .050  | .947   |      |        | 25 |
| 57161  | 2.25  |        | .093  | .369  |       |       | 25 | 53046  | 38.96 |        | .050  | 1.083  |      |        | 25 |
| 57157  | 2.60  |        | .052  | .208  |       |       | 25 | 51078  | 39.05 |        | .048  | 1.200  |      |        | 25 |
| 57103  | 4.10  |        | .065  | .315  |       |       | 25 | 57135  | 41.91 |        | .040  | 1.012  |      |        | 25 |
| 53042  | 4.11  |        | .052  | .242  |       |       | 25 | 57137  | 42.71 |        | .070  | 1.059  |      |        | 25 |
| 53043  | 7.36  |        | .053  | .376  |       |       | 25 | 53047  | 48.76 |        | .048  | 1.086  |      |        | 25 |
|        |       |        |       |       |       |       |    |        |       |        |       |        |      |        |    |
| 91063  | 7.55  |        | .100  | .635  |       |       | 20 | 70044  | 38.57 |        | .011  | .648   |      | -.909  | 50 |
| 91074  | 14.61 |        | .051  | .611  |       |       | 20 |        |       |        |       |        |      |        |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 0.01 TO 0.1 M (4)

AQUEOUS HNO3 FROM 0.1 TO 0.25 M (1)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H    | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  |
|--------|--------|--------|-------|-------|------|--------|----|--------|-------|--------|-------|-------|-------|-------|----|
| 32012  | 52.11  |        | .020  | .960  |      |        | 20 | 20019  |       |        | .200  |       |       | .135  | 15 |
| 91110  | 93.03  |        | .017  | .796  |      |        | 20 | 84005  | .01   |        | .250  | 1.270 |       |       | 20 |
| 91111  | 96.03  |        | .056  | .870  |      |        | 20 | 20034  |       |        | .200  |       |       | .095  | 22 |
| 53048  | 57.46  |        | .050  | 1.115 |      |        | 25 | 30021  |       |        | .200  |       |       | .100  | 23 |
| 48023  | 58.57  |        | .050  | .935  |      |        | 25 | 50005  |       |        | .170  |       |       | .088  | 25 |
| 48028  | 60.47  |        | .100  | 1.220 |      |        | 25 | 12004  |       |        | .174  |       |       | .099  | 25 |
| 48022  | 75.71  |        | .050  | 1.025 |      |        | 25 | 11010  |       |        | .200  |       |       | .080  | 25 |
| 57138  | 76.11  |        | .050  | .950  |      |        | 25 | 20089  |       |        | .101  |       |       | .045  | 30 |
| 11047  | 86.18  |        | .051  | .994  |      | -.647  | 25 | 84006  | .01   |        | .250  | .960  |       |       | 30 |
|        |        |        |       |       |      |        |    | 19031  |       |        | .200  |       | .070  |       | 25 |
| 70045  | 59.04  |        | .011  | .746  |      | -1.000 | 50 | 10033  |       |        | .200  |       | .074  |       | 25 |
| 70065  | 85.71  |        | .081  | .822  |      | -.200  | 60 | 51019  |       | .01    | .200  |       | .090  |       | 25 |
|        |        |        |       |       |      |        |    | 68002  |       | .05    | .110  |       | -.395 |       | 23 |
| 91125  | 125.83 |        | .080  | .790  |      |        | 20 | 51018  |       | .09    | .200  |       | .080  |       | 25 |
| 91124  | 126.83 |        | .056  | .741  |      |        | 20 | 54008  |       | .94    | .106  |       | .032  | .094  | 25 |
| 91123  | 135.49 |        | .016  | .723  |      |        | 20 | 42091  |       | 1.38   | .160  |       | .130  | .125  | 25 |
| 91136  | 181.62 |        | .041  | .627  |      |        | 20 | 54015  |       | 1.66   | .203  |       | .193  | .108  | 25 |
| 91137  | 186.29 |        | .065  | .591  |      |        | 20 | 54007  |       | 1.87   | .112  |       | .059  | .098  | 25 |
| 57139  | 104.22 |        | .100  | .860  |      |        | 25 | 54014  |       | 1.96   | .163  |       | -.173 | -.141 | 25 |
| 48021  | 225.94 |        | .050  | .526  |      |        | 25 | 54006  |       | 2.56   | .106  |       | .060  | .085  | 25 |
|        |        |        |       |       |      |        |    | 54013  |       | 3.10   | .193  |       | .217  | .114  | 25 |
| 70047  | 101.66 |        | .011  | .728  |      | -1.000 | 50 | 42092  |       | 3.30   | .160  |       | .125  | -.063 | 25 |
| 70066  | 107.61 |        | .089  | .750  |      | -.190  | 60 | 51017  |       | 3.92   | .200  |       | -.080 |       | 25 |
|        |        |        |       |       |      |        |    | 54005  |       | 3.98   | .112  |       | .088  | .107  | 25 |
|        |        |        |       |       |      |        |    | 54012  |       | 4.92   | .215  |       | .321  | .144  | 25 |
|        |        |        |       |       |      |        |    | 54011  |       | 9.12   | .172  |       | .171  | .151  | 25 |
|        |        |        |       |       |      |        |    | 54010  |       | 13.70  | .166  |       | .242  | .175  | 25 |
|        |        |        |       |       |      |        |    | 54002  |       | 13.80  | .113  |       | .201  | -.221 | 25 |
|        |        |        |       |       |      |        |    | 54009  |       | 17.75  | .178  |       | .368  | .185  | 25 |
|        |        |        |       |       |      |        |    | 20054  |       |        | .101  |       |       | .040  | 40 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

AQUEOUS HNO<sub>3</sub> FROM 0.1 TO 0.25 M (2)

AQUEOUS HNO<sub>3</sub> FROM 0.1 TO 0.25 M (3)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  |
|--------|-------|--------|-------|-------|------|-------|----|--------|--------|--------|-------|-------|------|-------|----|
| 84007  | .01   |        | .250  | .733  |      |       | 40 | 42099  | 34.01  | 18.40  | .250  | 1.318 | .268 | -.160 | 25 |
| 84008  | .01   |        | .250  | .575  |      |       | 50 |        |        |        |       |       |      |       |    |
| 20071  |       |        | .101  |       |      | .034  | 60 | 70022  | 41.43  |        | .121  | .839  |      | -.190 | 40 |
| 13093  |       |        | .200  |       | .099 |       | 70 | 70063  | 38.09  |        | .103  | .800  |      | -.291 | 60 |
| 91027  | .29   |        | .162  | .753  |      | -.047 | 20 | 91099  | 63.41  |        | .126  | -.937 |      |       | 20 |
| 91026  | .34   |        | .117  | .479  |      | -.023 | 20 | 43000  | 79.01  |        | .120  | .914  |      | -.250 | 25 |
| 91039  | .45   |        | .209  | 1.118 |      | .123  | 20 | 43001  | 80.01  | 5.24   | .160  | .956  | .127 | -.313 | 25 |
| 91037  | .59   |        | .132  | -.658 |      | .095  | 20 | 43002  | 72.01  | 20.70  | .180  | 1.042 | .203 | -.222 | 25 |
| 91038  | .65   |        | .166  | .704  |      | .102  | 20 |        |        |        |       |       |      |       |    |
| 57107  | 1.60  |        | .102  | .350  |      |       | 25 | 70023  | 60.95  |        | .116  | .922  |      | -.224 | 40 |
|        |       |        |       |       |      |       |    | 70024  | 86.66  |        | .110  | .854  |      | -.230 | 40 |
| 91051  | 3.47  |        | .112  | -.360 |      | -.037 | 20 | 70064  | 58.57  |        | .107  | .866  |      | -.130 | 60 |
| 42093  | 3.40  |        | .150  | .735  |      | -.133 | 25 |        |        |        |       |       |      |       |    |
| 57108  | 3.70  |        | .110  | .516  |      |       | 25 | 91112  | 104.02 |        | .145  | -.781 |      |       | 20 |
| 42094  | 4.60  | 5.00   | .160  | 1.043 | .156 | .125  | 25 | 91126  | 135.73 |        | .145  | .733  |      |       | 20 |
|        |       |        |       |       |      |       |    | 91147  | 228.83 |        | .107  | .509  |      |       | 20 |
| 91075  | 13.28 |        | .107  | .787  |      |       | 20 | 57229  | 107.12 |        | .215  | .856  |      | .023  | 25 |
| 57109  | 7.53  |        | .120  | .744  |      |       | 25 | 43003  | 140.02 |        | .120  | .700  |      | -.333 | 25 |
| 57110  | 11.10 |        | .150  | .982  |      |       | 25 | 57225  | 145.44 |        | .209  | .687  |      | .022  | 25 |
| 57105  | 11.80 |        | .110  | .786  |      |       | 25 | 57202  | 238.99 |        | .234  | .494  |      | -.005 | 25 |
| 42095  | 13.20 |        | .150  | .909  |      | -.333 | 25 | 43006  | 286.05 |        | .120  | .399  |      | -.417 | 25 |
| 42096  | 14.30 | 4.77   | .170  | 1.224 | .205 | -.176 | 25 | 43004  | 160.03 | 5.09   | .160  | .644  | .102 | -.250 | 25 |
|        |       |        |       |       |      |       |    | 43007  | 290.05 | 5.79   | .170  | .393  | .061 | -.294 | 25 |
| 50006  | 25.00 |        | .120  | .892  |      | .083  | 25 | 43008  | 295.05 | 17.40  | .200  | .393  | .098 | -.200 | 25 |
|        |       |        |       |       |      |       |    | 43005  | 152.03 | 18.00  | .170  | .651  | .126 | -.235 | 25 |
| 70021  | 22.14 |        | .120  | -.580 |      | -.333 | 40 |        |        |        |       |       |      |       |    |
| 50009  | 24.76 |        | .160  | .919  |      | .063  | 60 | 70025  | 108.80 |        | .108  | .825  |      | -.250 | 40 |
|        |       |        |       |       |      |       |    | 57262  | 154.01 |        | .185  | .665  |      | -.014 | 40 |
| 42097  | 42.31 |        | .140  | 1.057 |      | -.214 | 25 | 57245  | 145.68 |        | .181  | .624  |      | .029  | 60 |
| 42098  | 41.11 | 4.60   | .160  | 1.148 | .165 | -.250 | 25 | 57246  | 148.30 |        | .227  | .628  |      | .024  | 60 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 0.1 TO 0.25 M (4)

AQUEOUS HNO3 FROM 0.25 TO 0.45 M (1)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H  | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU  | D-H   | T  |
|--------|--------|--------|-------|------|------|------|----|--------|-------|--------|-------|--------|-------|-------|----|
| 57237  | 258.99 |        | .212  | .416 |      | .017 | 60 | 20020  |       |        | .300  |        |       | -.180 | 15 |
|        |        |        |       |      |      |      |    | 20001  |       |        | .270  |        |       | -.082 | 20 |
|        |        |        |       |      |      |      |    | 20022  |       |        | .300  |        |       | .120  | 20 |
|        |        |        |       |      |      |      |    | 91004  | .01   |        | .437  | 3.617  |       | .158  | 20 |
|        |        |        |       |      |      |      |    | 91017  | .01   |        | .446  | -5.756 |       | -.281 | 20 |
|        |        |        |       |      |      |      |    | 91016  | .02   |        | .421  | 3.641  |       | .157  | 20 |
|        |        |        |       |      |      |      |    | 20035  |       |        | .364  |        |       | .151  | 22 |
|        |        |        |       |      |      |      |    | 20036  |       |        | .413  |        |       | .159  | 22 |
|        |        |        |       |      |      |      |    | 30022  |       |        | .440  |        |       | .136  | 23 |
|        |        |        |       |      |      |      |    | 53063  |       |        | .290  |        |       | -.010 | 25 |
|        |        |        |       |      |      |      |    | 20025  |       |        | .300  |        |       | .108  | 25 |
|        |        |        |       |      |      |      |    | 10051  |       |        | .321  |        |       | .125  | 25 |
|        |        |        |       |      |      |      |    | 12005  |       |        | .359  |        |       | .126  | 25 |
|        |        |        |       |      |      |      |    | 14001  |       |        | .410  |        |       | .146  | 25 |
|        |        |        |       |      |      |      |    | 57194  | .03   |        | .440  | 2.734  |       | .161  | 25 |
|        |        |        |       |      |      |      |    | 57111  | .03   |        | .450  | 2.724  |       | -.311 | 25 |
|        |        |        |       |      |      |      |    | 57162  | .11   |        | .450  | 3.048  |       | .158  | 25 |
|        |        |        |       |      |      |      |    | 20028  |       |        | .300  |        |       | .101  | 30 |
|        |        |        |       |      |      |      |    | 20090  |       |        | .389  |        |       | .130  | 30 |
|        |        |        |       |      |      |      |    | 68003  |       | .04    | .310  |        | -.608 |       | 23 |
|        |        |        |       |      |      |      |    | 42063  |       | .47    | .320  |        | .418  | .156  | 25 |
|        |        |        |       |      |      |      |    | 54025  |       | .60    | .375  |        | .579  | .136  | 25 |
|        |        |        |       |      |      |      |    | 54016  |       | .72    | .298  |        | .347  | .111  | 25 |
|        |        |        |       |      |      |      |    | 51062  |       | .88    | .300  |        | -.260 |       | 25 |
|        |        |        |       |      |      |      |    | 54024  |       | 1.20   | .378  |        | .621  | .143  | 25 |
|        |        |        |       |      |      |      |    | 54023  |       | 1.29   | .335  |        | .459  | .125  | 25 |
|        |        |        |       |      |      |      |    | 42064  |       | 1.90   | .300  |        | .475  | -.200 | 25 |
|        |        |        |       |      |      |      |    | 54022  |       | 2.29   | .352  |        | .621  | .153  | 25 |
|        |        |        |       |      |      |      |    | 54021  |       | 3.62   | .375  |        | .821  | .165  | 25 |
|        |        |        |       |      |      |      |    | 54020  |       | 5.02   | .396  |        | .960  | .179  | 25 |
|        |        |        |       |      |      |      |    | 51015  |       | 5.31   | .400  |        | .590  |       | 25 |



DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 0.25 TO 0.45 M (2)

AQUEOUS HNO3 FROM 0.25 TO 0.45 M (3)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU  | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  |
|--------|-------|--------|-------|--------|-------|-------|----|--------|--------|--------|-------|-------|------|-------|----|
| 42065  |       | 5.41   | .290  |        | .444  | .138  | 25 | 51077  | 26.66  |        | .305  | 1.800 |      |       | 25 |
| 51061  |       | 7.41   | .300  |        | -.190 |       | 25 | 57141  | 32.31  |        | .370  | 1.632 |      | .081  | 25 |
| 54019  |       | 7.58   | .438  |        | 1.159 | .189  | 25 | 70001  | 44.04  |        | .300  | 1.514 |      | -.300 | 25 |
| 42066  |       | 9.26   | .300  |        | .515  | .133  | 25 | 42073  | 46.41  |        | .260  | 1.304 |      | -.192 | 25 |
| 51060  |       | 14.51  | .300  |        | -.240 |       | 25 | 53010  | 48.56  | .93    | .310  | 1.415 | .260 | .058  | 25 |
| 42067  |       | 16.60  | .310  |        | .753  | .194  | 25 | 42046  | 43.51  | 3.62   | .440  | 1.414 | .272 | -.182 | 25 |
| 42068  |       | 29.50  | .340  |        | .885  | .176  | 25 | 42074  | 42.51  | 10.20  | .310  | 1.388 | .304 | -.161 | 25 |
| 42069  |       | 32.70  | .370  |        | .948  | .135  | 25 | 42075  | 37.01  | 37.20  | .320  | 1.478 | .409 | -.156 | 25 |
| 55024  |       | 50.19  | .360  |        | 1.114 |       | 28 | 70005  | 40.47  |        | .300  | -.776 |      | .050  | 55 |
| 20055  |       |        | .394  |        |       | .114  | 40 | 13010  | 44.04  |        | .300  | .903  |      |       | 70 |
| 20072  |       |        | .407  |        |       | .102  | 60 | 91100  | 53.30  |        | .387  | 1.292 |      | -.011 | 20 |
| 57112  | .51   |        | .450  | 3.039  |       | .147  | 25 | 32020  | 54.51  |        | .430  | 1.339 |      |       | 20 |
| 57165  | .74   |        | .450  | 3.203  |       | .151  | 25 | 91113  | 96.03  |        | .445  | .922  |      | -.049 | 20 |
| 57113  | 1.31  |        | .450  | 3.206  |       | .156  | 25 | 70002  | 61.90  |        | .300  | 1.308 |      | -.300 | 25 |
| 53021  | 1.03  | .71    | .285  | -.859  | -.463 | .123  | 25 | 42076  | 90.02  |        | .280  | .944  |      | -.214 | 25 |
| 53014  | .99   | .79    | .285  | 1.283  | .253  | .123  | 25 | 57143  | 97.62  |        | .380  | .966  |      | .026  | 25 |
| 53031  | .39   | .84    | .270  | 1.649  | .243  | -.157 | 25 | 42077  | 80.01  | 11.20  | .310  | 1.037 | .215 | -.161 | 25 |
| 91052  | 2.13  |        | .380  | -1.282 |       | -.178 | 20 | 42078  | 79.01  | 25.00  | .320  | 1.025 | .240 | -.156 | 25 |
| 91064  | 3.42  |        | .409  | 2.599  |       | .137  | 20 | 42079  | 82.01  | 37.60  | .330  | .976  | .263 | -.152 | 25 |
| 91076  | 6.50  |        | .422  | 2.588  |       | .124  | 20 | 70017  | 52.38  |        | .300  | 1.120 |      | -.300 | 55 |
| 42070  | 5.20  |        | .310  | 1.692  |       | .129  | 25 | 70006  | 59.52  |        | .300  | -.880 |      | -.017 | 55 |
| 42071  | 3.30  | 9.90   | .300  | 2.030  | .535  | .167  | 25 | 70018  | 71.42  |        | .300  | 1.000 |      | -.300 | 55 |
| 42072  | 3.00  | 27.40  | .320  | 2.267  | .723  | .188  | 25 | 70007  | 76.19  |        | .300  | 1.020 |      | -.008 | 55 |
| 57140  | 11.10 |        | .420  | 2.225  |       | .119  | 25 | 13009  | 55.47  |        | .300  | .888  |      |       | 70 |
| 91088  | 16.62 |        | .434  | -2.747 |       | -.049 | 20 | 13008  | 92.85  |        | .300  | .808  |      |       | 70 |
| 91087  | 24.54 |        | .251  | 1.560  |       | .096  | 20 | 57230  | 102.12 |        | .270  | .890  |      | .025  | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

AQUEOUS HNO<sub>3</sub> FROM 0.25 TO 0.45 M (4)

AQUEOUS HNO<sub>3</sub> FROM 0.25 TO 0.45 M (5)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H   | T  |
|--------|--------|--------|-------|------|------|-------|----|
| 57231  | 103.07 |        | .314  | .887 |      | .025  | 25 |
| 57222  | 140.92 |        | .406  | .726 |      | .021  | 25 |
| 57223  | 141.87 |        | .318  | .715 |      | .018  | 25 |
| 57224  | 143.30 |        | .263  | .698 |      | .016  | 25 |
| 42080  | 165.03 |        | .260  | .630 |      | -.269 | 25 |
| 57212  | 176.86 |        | .270  | .612 |      | .020  | 25 |
| 57214  | 212.09 |        | .386  | .523 |      | -.007 | 25 |
| 57203  | 232.57 |        | .270  | .508 |      |       | 25 |
| 57201  | 238.99 |        | .320  | .499 |      | .014  | 25 |
| 57211  | 242.32 |        | .311  | .472 |      | .015  | 25 |
| 57210  | 243.99 |        | .306  | .474 |      | .014  | 25 |
| 57209  | 253.51 |        | .255  | .457 |      | -.007 | 25 |
| 42086  | 345.06 |        | .290  | .330 |      | -.207 | 25 |
| 42081  | 146.02 | 3.14   | .290  | .705 | .157 | -.172 | 25 |
| 42087  | 287.05 | 3.92   | .290  | .397 | .117 | -.172 | 25 |
| 42088  | 232.04 | 10.00  | .260  | .478 | .124 | -.192 | 25 |
| 42082  | 117.02 | 10.20  | .290  | .803 | .165 | -.138 | 25 |
| 42089  | 301.05 | 10.50  | .320  | .369 | .123 | -.156 | 25 |
| 42083  | 146.02 | 10.60  | .310  | .671 | .160 | -.161 | 25 |
| 42084  | 140.02 | 29.00  | .300  | .721 | .152 | -.200 | 25 |
| 42085  | 147.02 | 39.50  | .310  | .687 | .177 | -.161 | 25 |
| 42061  | 314.05 | 40.00  | .450  | .363 | .143 | -.111 | 25 |
| 42090  | 297.05 | 40.80  | .330  | .377 | .123 | -.152 | 25 |
| 57264  | 152.82 |        | .348  | .687 |      | .022  | 40 |
| 57254  | 262.80 |        | .272  | .440 |      | .017  | 40 |
| 57253  | 263.99 |        | .269  | .438 |      | .017  | 40 |
| 57255  | 266.60 |        | .363  | .443 |      | .012  | 40 |
| 70052  | 135.71 |        | .450  | .695 |      | -.091 | 50 |
| 57247  | 149.01 |        | .337  | .634 |      | .032  | 60 |
| 57239  | 252.32 |        | .315  | .422 |      | .021  | 60 |

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H   | T  |
|--------|--------|--------|-------|------|------|-------|----|
| 57238  | 255.42 |        | .267  | .418 |      | .016  | 60 |
| 13007  | 110.71 |        | .300  | .744 |      |       | 70 |
| 13061  | 111.90 |        | .280  | .702 |      | -.021 | 70 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 0.45 TO 0.6 M (1)

AQUEOUS HNO3 FROM 0.45 TO 0.6 M (2)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU  | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU  | D-H  | T  |
|--------|-------|--------|-------|--------|-------|-------|----|--------|-------|--------|-------|--------|-------|------|----|
| 20023  |       |        | .500  |        |       | .165  | 20 | 42032  |       | 4.28   | .530  |        | 1.119 | .151 | 25 |
| 84009  | .01   |        | .500  | 3.250  |       |       | 20 | 51056  |       | 4.54   | .600  |        | 1.450 |      | 25 |
| 91028  | .11   |        | .459  | 3.232  |       | -.194 | 20 | 34031  | .09   | 4.67   | .490  | 2.700  | 1.200 |      | 25 |
| 91040  | .18   |        | .530  | -4.666 |       | .167  | 20 | 30042  |       | 5.00   | .500  |        | .800  |      | 25 |
| 10052  |       |        | .499  |        |       | .166  | 25 | 33002  |       | 5.00   | .500  |        | .860  |      | 25 |
| 20026  |       |        | .500  |        |       | .152  | 25 | 33026  |       | 5.00   | .500  |        | .850  |      | 25 |
| 35037  |       |        | .500  | 2.654  |       |       | 25 | 30043  |       | 7.50   | .500  |        | .800  |      | 25 |
| 11011  |       |        | .510  |        |       | .155  | 25 | 33003  |       | 9.50   | .500  |        | .895  |      | 25 |
| 12006  |       |        | .517  |        |       | .169  | 25 | 34036  | .09   | 9.58   | .480  | 3.300  | 1.180 |      | 25 |
| 35036  |       |        | .500  | 2.683  |       |       | 25 | 51055  |       | 9.80   | .600  |        | 1.320 |      | 25 |
| 35035  |       |        | .500  | 2.686  |       |       | 25 | 30044  |       | 10.00  | .500  |        | .800  |      | 25 |
| 11006  | .07   |        | .530  | 2.650  |       |       | 25 | 33027  |       | 10.00  | .500  |        | .850  |      | 25 |
| 20029  |       |        | .500  |        |       | .142  | 30 | 42033  |       | 13.60  | .520  |        | 1.257 | .154 | 25 |
| 84010  | .01   |        | .500  | 2.550  |       |       | 30 | 34041  | .09   | 18.70  | .480  | 3.100  | 1.230 |      | 25 |
| 30001  |       |        | .500  |        | .810  |       | 22 | 42034  |       | 19.60  | .510  |        | 1.082 | .137 | 25 |
| 11053  |       |        | .490  |        | .640  |       | 25 | 51053  |       | 19.90  | .600  |        | 1.280 |      | 25 |
| 10042  |       |        | .476  |        | .730  | -.252 | 30 | 33028  |       | 20.00  | .500  |        | .850  |      | 25 |
| 10011  |       |        | .520  |        | .960  |       | 25 | 33004  |       | 21.00  | .500  |        | .833  |      | 25 |
| 51014  |       |        | .600  |        | 1.400 |       | 25 | 42035  |       | 33.50  | .510  |        | 1.125 | .118 | 25 |
| 68004  |       | .04    | .510  |        | .837  |       | 23 | 42036  |       | 43.70  | .520  |        | 1.121 | .115 | 25 |
| 51013  |       | .04    | .600  |        | 1.500 |       | 25 | 33005  |       | 49.00  | .500  |        | .837  |      | 25 |
| 34021  | .11   | .10    | .500  | 3.600  | 1.100 |       | 25 | 33029  |       | 50.00  | .500  |        | .850  |      | 25 |
| 51012  |       | .44    | .600  |        | 1.300 |       | 25 |        |       |        |       |        |       |      |    |
| 42030  |       | .45    | .520  |        | 1.033 | .154  | 25 | 20056  |       |        | .593  |        |       | .159 | 40 |
| 33001  |       | .80    | .500  |        | .938  |       | 25 | 84011  | .01   |        | .500  | 2.070  |       |      | 40 |
| 51058  |       | .89    | .600  |        | 1.560 |       | 25 | 84012  | .01   |        | .500  | 1.680  |       |      | 50 |
| 34026  | .10   | .90    | .500  | 3.900  | 1.340 |       | 25 |        |       |        |       |        |       |      |    |
| 51057  |       | 1.04   | .600  |        | 1.420 |       | 25 | 57164  | .41   |        | .460  | 2.951  |       | .152 | 25 |
| 42031  |       | 1.41   | .520  |        | 1.121 | .154  | 25 | 57163  | .46   |        | .470  | -1.732 |       | .155 | 25 |
| 33025  |       | 2.00   | .500  |        | .850  |       | 25 | 34022  | .87   | .10    | .490  | -3.800 | .900  |      | 25 |
| 30041  |       | 2.50   | .500  |        | .800  |       | 25 | 34027  | 1.25  | 1.00   | .470  | 3.200  | 1.080 |      | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 0.45 TO 0.6 M (3)

AQUEOUS HNO3 FROM 0.45 TO 0.6 M (4)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU  | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU | D-H   | T  |
|--------|-------|--------|-------|--------|-------|-------|----|--------|-------|--------|-------|--------|------|-------|----|
| 34032  | .89   | 4.70   | .470  | -3.700 | 1.000 |       | 25 | 31038  | 23.30 |        | .508  | 2.082  |      |       | 20 |
| 34037  | 1.61  | 9.48   | .460  | 3.100  | .960  |       | 25 | 42041  | 17.10 |        | .500  | 2.135  |      | -.140 | 25 |
| 34042  | .92   | 17.93  | .520  | 3.000  | 1.350 |       | 25 | 48030  | 21.90 |        | .500  | -1.880 |      |       | 25 |
| 91065  | 2.28  |        | .597  | 4.382  |       | .171  | 20 | 11040  | 23.33 |        | .510  | 2.173  |      | .084  | 25 |
| 31042  | 3.25  |        | .488  | 2.920  |       |       | 20 | 37032  | 23.80 |        | .500  | 2.070  |      |       | 25 |
| 31041  | 5.47  |        | .488  | 2.779  |       |       | 20 | 11041  | 23.81 |        | .510  | 2.160  |      | -.022 | 25 |
| 57114  | 3.22  |        | .460  | 3.062  |       | .152  | 25 | 42043  | 16.50 | 22.10  | .490  | 2.273  | .652 | .122  | 25 |
| 42037  | 3.80  |        | .510  | 2.974  |       | .157  | 25 | 32013  | 26.10 |        | .460  | 1.946  |      |       | 20 |
| 57115  | 5.23  |        | .480  | 3.040  |       | .146  | 25 | 31095  | 29.75 |        | .470  | 1.913  |      |       | 20 |
| 11037  | 6.83  |        | .510  | 2.927  |       | .139  | 25 | 31037  | 30.31 |        | .508  | 1.917  |      |       | 20 |
| 42038  | 4.50  | 2.57   | .540  | -2.333 | .938  | -.204 | 25 | 31036  | 37.11 |        | .498  | 1.712  |      |       | 20 |
| 42039  | 4.30  | 18.90  | .510  | 3.488  | .905  | .137  | 25 | 32001  | 39.51 |        | .490  | 1.620  |      |       | 20 |
| 42040  | 3.90  | 34.50  | .550  | 2.564  | 1.003 | .127  | 25 | 32008  | 47.21 |        | .495  | 1.564  |      |       | 20 |
| 31040  | 8.86  |        | .508  | 2.607  |       |       | 20 | 91101  | 48.77 |        | .595  | 1.493  |      | -.030 | 20 |
| 31039  | 10.90 |        | .493  | 2.514  |       |       | 20 | 51076  | 41.43 |        | .487  | 1.700  |      |       | 25 |
| 37031  | 9.52  |        | .500  | 2.850  |       |       | 25 | 42045  | 48.01 |        | .480  | 1.402  |      | -.167 | 25 |
| 48029  | 10.24 |        | .500  | -1.721 |       |       | 25 | 30045  | 35.01 | 2.50   | .500  |        | .400 |       | 25 |
| 11038  | 11.90 |        | .510  | 2.540  |       | .100  | 25 | 30046  | 35.01 | 5.00   | .500  |        | .500 |       | 25 |
| 11039  | 11.90 |        | .510  | 2.640  |       | -.025 | 25 | 30047  | 35.01 | 10.00  | .500  |        | .525 |       | 25 |
| 34023  | 10.78 | .08    | .520  | 2.700  | .800  |       | 25 | 30048  | 35.01 | 15.00  | .500  |        | .600 |       | 25 |
| 34028  | 11.11 | 1.05   | .500  | 2.700  | .800  |       | 25 | 42047  | 41.21 | 24.00  | .540  | 1.578  | .438 | -.111 | 25 |
| 34033  | 9.64  | 3.75   | .500  | 2.800  | .800  |       | 25 | 42048  | 35.11 | 38.40  | .490  | 1.681  | .440 | -.184 | 25 |
| 34038  | 8.86  | 8.45   | .490  | 2.800  | .840  |       | 25 | 70049  | 32.14 |        | .504  | 1.363  |      | .101  | 50 |
| 34043  | 8.03  | 17.65  | .550  | 3.100  | .980  |       | 25 | 31035  | 52.91 |        | .503  | 1.431  |      |       | 20 |
| 42044  | 12.80 | 33.70  | .540  | 2.211  | .766  | .130  | 25 | 31034  | 71.61 |        | .503  | 1.214  |      |       | 20 |
| 70048  | 14.28 |        | .524  | 1.567  |       | .114  | 50 | 31033  | 90.42 |        | .503  | 1.046  |      |       | 20 |
| 31088  | 21.60 |        | .503  | 2.106  |       |       | 20 | 37033  | 54.75 |        | .500  | 1.413  |      |       | 25 |
|        |       |        |       |        |       |       |    | 48031  | 60.71 |        | .500  | 1.333  |      |       | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

AQUEOUS HNO<sub>3</sub> FROM 0.45 TO 0.6 M (5)

AQUEOUS HNO<sub>3</sub> FROM 0.45 TO 0.6 M (6)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU  | D-H   | T  |
|--------|--------|--------|-------|-------|------|-------|----|--------|--------|--------|-------|------|-------|-------|----|
| 57142  | 63.81  |        | .520  | 1.282 |      | .038  | 25 | 57204  | 236.14 |        | .543  | .490 |       | .012  | 25 |
| 11042  | 72.85  |        | .520  | 1.271 |      | .042  | 25 | 42058  | 322.05 |        | .490  | .373 |       | -.143 | 25 |
| 37034  | 77.84  |        | .500  | 1.187 |      |       | 25 | 34024  | 101.87 | .11    | .530  | .970 | -.130 |       | 25 |
| 11043  | 85.47  |        | .520  | 1.162 |      | -.090 | 25 | 34025  | 150.58 | 1.05   | .520  | .720 | -.100 |       | 25 |
| 37035  | 95.22  |        | .500  | 1.015 |      |       | 25 | 34030  | 152.80 | 1.10   | .510  | .720 | .200  |       | 25 |
| 42049  | 95.62  |        | .490  | .952  |      | -.143 | 25 | 42059  | 349.06 | 3.10   | .500  | .332 | .123  | -.140 | 25 |
| 48032  | 96.66  |        | .500  | 1.032 |      |       | 25 | 42054  | 169.03 | 3.26   | .500  | .645 | .144  | -.160 | 25 |
| 57232  | 99.26  |        | .490  | .942  |      | .027  | 25 | 42055  | 154.03 | 3.28   | .510  | .695 | .165  | -.118 | 25 |
| 34029  | 100.02 | .93    | .510  | 1.000 | .300 |       | 25 | 42060  | 289.05 | 3.43   | .490  | .374 | .133  | -.122 | 25 |
| 42050  | 85.51  | 3.59   | .510  | 1.099 | .212 | -.157 | 25 | 34035  | 153.50 | 5.00   | .500  | .720 | .200  |       | 25 |
| 34034  | 100.02 | 4.80   | .500  | 1.000 | .250 |       | 25 | 34040  | 149.34 | 10.00  | .490  | .730 | .180  |       | 25 |
| 34039  | 100.02 | 10.74  | .490  | 1.000 | .270 |       | 25 | 34045  | 142.88 | 19.55  | .560  | .770 | .220  |       | 25 |
| 34044  | 94.49  | 19.64  | .550  | 1.050 | .280 |       | 25 | 42056  | 164.03 | 37.90  | .470  | .628 | .201  | -.106 | 25 |
| 42051  | 81.01  | 24.50  | .520  | 1.111 | .293 | -.115 | 25 | 57265  | 144.25 |        | .460  | .729 |       | .027  | 40 |
| 42052  | 81.01  | 42.40  | .550  | 1.049 | .274 | -.109 | 25 | 57256  | 267.79 |        | .500  | .442 |       | -.009 | 40 |
| 70050  | 61.42  |        | .490  | 1.105 |      | .084  | 50 | 70053  | 245.70 |        | .471  | .471 |       | .017  | 50 |
| 70051  | 99.99  |        | .460  | .852  |      | .074  | 50 | 57248  | 139.49 |        | .493  | .677 |       | .033  | 60 |
| 13006  | 52.85  |        | .500  | 1.185 |      |       | 70 | 57241  | 254.46 |        | .465  | .425 |       | .023  | 60 |
| 31032  | 108.02 |        | .517  | .926  |      |       | 20 | 13005  | 110.47 |        | .600  | .793 |       |       | 70 |
| 31031  | 127.02 |        | .499  | .827  |      |       | 20 |        |        |        |       |      |       |       |    |
| 91127  | 135.02 |        | .535  | .741  |      |       | 20 |        |        |        |       |      |       |       |    |
| 31030  | 147.02 |        | .522  | .728  |      |       | 20 |        |        |        |       |      |       |       |    |
| 31029  | 167.03 |        | .538  | .671  |      |       | 20 |        |        |        |       |      |       |       |    |
| 91138  | 169.13 |        | .500  | .666  |      | .024  | 20 |        |        |        |       |      |       |       |    |
| 31027  | 189.03 |        | .542  | .608  |      |       | 20 |        |        |        |       |      |       |       |    |
| 31028  | 205.03 |        | .562  | .566  |      |       | 20 |        |        |        |       |      |       |       |    |
| 57221  | 143.06 |        | .521  | .719  |      | .019  | 25 |        |        |        |       |      |       |       |    |
| 42053  | 169.03 |        | .470  | .675  |      | -.170 | 25 |        |        |        |       |      |       |       |    |
| 57213  | 201.14 |        | .456  | .547  |      | .011  | 25 |        |        |        |       |      |       |       |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 0.6 TO 0.9 M (1)

AQUEOUS HNO3 FROM 0.6 TO 0.9 M (2)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU  | D-H   | T       | SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU  | D-H   | T  |
|--------|-------|--------|-------|--------|-------|-------|---------|--------|-------|--------|-------|--------|-------|-------|----|
| 20002  |       |        | .640  |        |       |       | .175 20 | 56016  |       | .02    | .830  |        | 2.200 |       | 62 |
| 31001  |       |        | .663  |        |       |       | .166 20 | 56021  |       | .02    | .830  |        | 2.284 |       | 64 |
| 91005  |       |        | .637  | 5.940  |       |       | .190 20 | 56017  |       | .02    | .820  |        | 2.120 |       | 70 |
| 91029  | .09   |        | .654  | -4.319 |       |       | .191 20 | 56028  |       | 7.77   | .780  |        | 1.900 |       | 50 |
| 91041  | .13   |        | .730  | 7.011  |       |       | .191 20 | 56027  |       | 7.93   | .780  |        | 1.890 |       | 41 |
| 20037  |       |        | .787  |        |       |       | .205 22 | 56022  |       | 7.96   | .740  |        | 1.880 |       | 36 |
| 20038  |       |        | .873  |        |       |       | .225 22 | 56026  |       | 8.03   | .780  |        | 1.890 |       | 30 |
| 30023  |       |        | .700  |        |       |       | .171 23 | 56023  |       | 8.08   | .680  |        | 1.830 |       | 47 |
| 10053  |       |        | .625  |        |       |       | .187 25 | 56030  |       | 8.08   | .770  |        | 1.675 |       | 71 |
| 12007  |       |        | .685  |        |       |       | .184 25 | 56029  |       | 8.13   | .780  |        | 1.770 |       | 60 |
| 14002  |       |        | .780  |        |       |       | .192 25 | 56024  |       | 8.48   | .740  |        | 1.710 |       | 56 |
| 12008  |       |        | .843  |        |       |       | .203 25 | 56025  |       | 8.58   | .750  |        | 1.600 |       | 64 |
| 10054  |       |        | .874  |        |       |       | .211 25 | 56035  |       | 24.38  | .850  |        | 1.560 |       | 71 |
| 57195  | .02   |        | .830  | 5.459  |       |       | .201 25 | 56034  |       | 24.62  | .860  |        | 1.600 |       | 60 |
| 57116  | .02   |        | .850  | 5.471  |       |       | .202 25 | 56033  |       | 25.57  | .860  |        | 1.576 |       | 50 |
| 57166  | .05   |        | .830  | 7.579  |       |       | .206 25 | 56032  |       | 25.67  | .870  |        | 1.570 |       | 40 |
| 57167  | .12   |        | .870  | 7.724  |       |       | .197 25 | 56031  |       | 26.29  | .870  |        | 1.530 |       | 31 |
| 20091  |       |        | .727  |        |       |       | .187 30 | 55026  |       | 50.67  | .640  |        | 1.151 |       | 31 |
| 10043  |       |        | .711  |        | 1.600 | -.238 | 30      |        |       |        |       |        |       |       |    |
| 10001  |       |        | .700  |        | 1.500 |       | 25      | 91053  | .72   |        | .617  | 5.557  |       | .179  | 20 |
| 51011  |       | 5.58   | .610  |        | 1.300 |       | 25      | 57168  | .22   |        | .840  | 6.409  |       | .202  | 25 |
| 43018  |       | 37.70  | .750  |        | 1.061 | .067  | 25      | 57117  | .26   |        | .830  | 6.985  |       | .193  | 25 |
|        |       |        |       |        |       |       |         | 57169  | .33   |        | .820  | -8.152 |       | .198  | 25 |
| 20057  |       |        | .765  |        |       | .174  | 40      | 57118  | .70   |        | .850  | 6.714  |       | .188  | 25 |
| 20073  |       |        | .729  |        |       | .154  | 60      | 57119  | 1.74  |        | .850  | 6.437  |       | .176  | 25 |
| 56013  |       | .02    | .810  |        | 2.160 |       | 30      |        |       |        |       |        |       |       |    |
| 56018  |       | .02    | .820  |        | 2.200 |       | 35      | 91077  | 4.57  |        | .620  | 4.011  |       | .147  | 20 |
| 56014  |       | .02    | .820  |        | 2.130 |       | 39      | 57120  | 3.54  |        | .880  | 5.678  |       | .159  | 25 |
| 56019  |       | .02    | .810  |        | 2.150 |       | 45      | 57144  | 6.63  |        | .740  | 3.937  |       | .135  | 25 |
| 56015  |       | .02    | .810  |        | 2.020 |       | 50      |        |       |        |       |        |       |       |    |
| 56020  |       | .02    | .810  |        | 2.440 |       | 55      | 91089  | 13.37 |        | .677  | 3.549  |       | -.063 | 20 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

AQUEOUS HNO<sub>3</sub> FROM 0.6 TO 0.9 M (3)

AQUEOUS HNO<sub>3</sub> FROM 0.6 TO 0.9 M (4)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H   | T  |
|--------|--------|--------|-------|-------|------|-------|----|--------|--------|--------|-------|------|------|-------|----|
| 82001  | 8.50   |        | .900  | 3.882 |      | .140  | 25 | 42057  | 172.03 | 82.00  | .610  | .581 | .171 | -.115 | 25 |
| 32014  | 16.50  |        | .840  | 3.042 |      |       | 20 | 42062  | 336.06 | 83.10  | .700  | .313 | .146 | -.114 | 25 |
| 42042  | 16.70  | 3.19   | .610  | 2.024 | .549 | -.066 | 25 | 57263  | 149.73 |        | .689  | .719 |      | .026  | 40 |
| 32021  | 36.11  |        | .850  | 2.036 |      |       | 20 | 57257  | 261.13 |        | .675  | .455 |      | .019  | 40 |
| 13004  | 30.47  |        | .800  | 1.719 |      | -.112 | 70 | 13062  | 252.36 |        | .880  | .434 |      | .034  | 70 |
| 13003  | 43.33  |        | .800  | 1.511 |      | -.125 | 70 |        |        |        |       |      |      |       |    |
| 91115  | 79.31  |        | .709  | 1.213 |      | .047  | 20 |        |        |        |       |      |      |       |    |
| 91114  | 92.50  |        | .634  | .999  |      | .052  | 20 |        |        |        |       |      |      |       |    |
| 13065  | 54.76  |        | .670  | 1.043 |      | .087  | 70 |        |        |        |       |      |      |       |    |
| 13002  | 84.28  |        | .900  | 1.031 |      | .089  | 70 |        |        |        |       |      |      |       |    |
| 56090  | 77.14  | 5.35   | .795  | .980  | .920 |       | 69 |        |        |        |       |      |      |       |    |
| 56089  | 74.76  | 5.93   | .800  | 1.020 | .830 |       | 60 |        |        |        |       |      |      |       |    |
| 56088  | 72.14  | 6.64   | .790  | 1.110 | .686 |       | 50 |        |        |        |       |      |      |       |    |
| 56087  | 69.76  | 7.24   | .800  | 1.190 | .605 |       | 41 |        |        |        |       |      |      |       |    |
| 56086  | 67.85  | 7.91   | .810  | 1.284 | .468 |       | 32 |        |        |        |       |      |      |       |    |
| 56085  | 88.57  | 12.79  | .860  | .830  | .934 |       | 70 |        |        |        |       |      |      |       |    |
| 56084  | 84.76  | 14.27  | .870  | .904  | .816 |       | 59 |        |        |        |       |      |      |       |    |
| 56083  | 80.95  | 15.75  | .870  | .980  | .670 |       | 50 |        |        |        |       |      |      |       |    |
| 56082  | 78.09  | 17.21  | .875  | 1.075 | .544 |       | 41 |        |        |        |       |      |      |       |    |
| 56081  | 74.28  | 18.71  | .880  | 1.180 | .432 |       | 31 |        |        |        |       |      |      |       |    |
| 91128  | 130.52 |        | .778  | .828  |      |       | 20 |        |        |        |       |      |      |       |    |
| 91139  | 168.53 |        | .774  | .676  |      | -.034 | 20 |        |        |        |       |      |      |       |    |
| 57220  | 137.35 |        | .642  | .769  |      | .022  | 25 |        |        |        |       |      |      |       |    |
| 57219  | 137.35 |        | .826  | .761  |      | .021  | 25 |        |        |        |       |      |      |       |    |
| 57215  | 198.76 |        | .806  | .565  |      | .013  | 25 |        |        |        |       |      |      |       |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 0.9 TO 1.1 M (1)

AQUEOUS HNO3 FROM 0.9 TO 1.1 M (2)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU   | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU   | D-H  | T  |
|--------|-------|--------|-------|-------|--------|-------|----|--------|-------|--------|-------|-------|--------|------|----|
| 13081  |       |        | 1.030 |       | 2.200  |       | 0  | 42001  |       | .63    | .990  |       | 2.730  | .202 | 25 |
| 84013  | .01   |        | 1.000 | 7.920 |        |       | 10 | 43013  |       | .92    | 1.000 |       | -1.076 | .200 | 25 |
| 31002  |       |        | .960  |       |        | .187  | 20 | 34001  | .09   | 1.00   | .990  | 9.000 | 3.800  |      | 25 |
| 20003  |       |        | 1.060 |       |        | .210  | 20 | 33063  |       | 1.09   | .930  |       | 3.200  |      | 25 |
| 84014  | .01   |        | 1.000 | 6.890 |        |       | 20 | 33030  |       | 2.00   | 1.000 |       | 2.550  |      | 25 |
| 30024  |       |        | .930  |       |        | .194  | 23 | 33006  |       | 2.20   | 1.000 |       | 2.273  |      | 25 |
| 10055  |       |        | .976  |       |        | .222  | 25 | 33062  |       | 2.23   | .950  |       | 3.100  |      | 25 |
| 35038  |       |        | 1.000 | 7.209 |        |       | 25 | 42002  |       | 2.27   | .990  |       | 2.555  | .202 | 25 |
| 35039  |       |        | 1.000 | 7.185 |        |       | 25 | 30049  |       | 2.50   | 1.000 |       | 2.000  |      | 25 |
| 11012  |       |        | 1.030 |       |        | .213  | 25 | 34006  | .08   | 4.16   | .970  | 7.400 | 3.100  |      | 25 |
| 11005  | .03   |        | 1.090 | 7.610 |        |       | 25 | 30050  |       | 5.00   | 1.000 |       | 2.000  |      | 25 |
| 20092  |       |        | .919  |       |        | .208  | 30 | 33031  |       | 5.00   | 1.000 |       | 2.300  |      | 25 |
| 84015  | .01   |        | 1.000 | 5.780 |        |       | 30 | 42003  |       | 5.73   | 1.000 |       | 2.565  | .170 | 25 |
| 30002  |       |        | 1.000 |       | 2.700  |       | 22 | 42004  |       | 8.30   | 1.010 |       | 2.313  | .168 | 25 |
| 33053  |       |        | 1.000 |       | 3.400  |       | 23 | 34011  | .10   | 8.77   | .970  | 5.700 | 2.600  |      | 25 |
| 11054  |       |        | .990  |       | 2.900  |       | 25 | 33007  |       | 9.50   | 1.000 |       | 1.916  |      | 25 |
| 19032  |       |        | 1.000 |       | 3.000  |       | 25 | 30051  |       | 10.00  | 1.000 |       | 1.900  |      | 25 |
| 10044  |       |        | .972  |       | 2.800  | -.252 | 30 | 33032  |       | 10.00  | 1.000 |       | 1.950  |      | 25 |
| 83003  |       |        | 1.000 |       | 3.030  |       | 30 | 43016  |       | 11.50  | .980  |       | -1.235 | .163 | 25 |
| 83002  |       |        | 1.000 |       | 2.790  |       | 20 | 34016  | .09   | 17.41  | .970  | 6.800 | 2.200  |      | 25 |
| 83001  |       |        | 1.000 |       | 2.780  |       | 10 | 42006  |       | 17.60  | 1.080 |       | 2.091  | .139 | 25 |
| 10012  |       |        | .930  |       | 3.000  |       | 25 | 43017  |       | 18.80  | .910  |       | -1.128 | .121 | 25 |
| 10021  |       |        | .960  |       | 3.100  |       | 25 | 30052  |       | 20.00  | 1.000 |       | 1.835  |      | 25 |
| 10032  |       |        | 1.000 |       | 3.000  |       | 25 | 33008  |       | 20.00  | 1.000 |       | 1.600  |      | 25 |
| 68005  |       | .02    | .980  |       | -1.980 |       | 23 | 33033  |       | 20.00  | 1.000 |       | 1.600  |      | 25 |
| 33066  |       | .03    | 1.000 |       | 3.700  |       | 25 | 33009  |       | 26.20  | 1.000 |       | 1.458  |      | 25 |
| 43011  |       | .09    | .950  |       | -1.125 | .211  | 25 | 55025  |       | 35.61  | 1.070 |       | -1.164 |      | 28 |
| 33096  | .11   | .11    | .940  | 9.600 | 3.700  |       | 25 | 33010  |       | 49.50  | 1.000 |       | 1.156  |      | 25 |
| 33065  |       | .13    | 1.000 |       | 3.600  |       | 25 | 33034  |       | 50.00  | 1.000 |       | 1.200  |      | 25 |
| 33064  |       | .40    | 1.000 |       | 3.400  |       | 25 |        |       |        |       |       |        |      |    |
| 43012  |       | .48    | 1.030 |       | -1.147 | .204  | 25 | 20058  |       |        | .995  |       |        | .203 | 40 |



DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

| AQUEOUS HNO <sub>3</sub> FROM 0.9 TO 1.1 M (3) |       |        |       |       |       |       |    | AQUEOUS HNO <sub>3</sub> FROM 0.9 TO 1.1 M (4) |       |        |       |        |       |       |    |
|--|-------|--------|-------|-------|-------|-------|----|--|-------|--------|-------|--------|-------|-------|----|
| SOURCE   | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  | SOURCE   | U-AQU | PU-AQU | H-AQU | D-U    | D-PU  | D-H   | T  |
| 84016  | .01   |        | 1.000 | 4.900 |       |       | 40 | 42010  | 3.50  | 22.80  | 1.010 | 3.857  | 1.447 | .119  | 25 |
| 83079  |       |        | 1.020 |       |       | .186  | 45 |  |       |        |       |        |       |       |    |
| 84017  | .01   |        | 1.000 | 4.180 |       |       | 50 | 34075  | 5.36  |        | 1.000 | 4.620  |       |       | 35 |
| 20074  |       |        | .952  |       |       | .179  | 60 | 70026  | 5.24  |        | 1.060 | 4.730  |       | .156  | 40 |
| 83083  |       |        | 1.030 |       |       | .175  | 60 | 83031  | 4.40  |        | 1.050 | 5.182  |       | .152  | 45 |
| 84018  | .01   |        | 1.000 | 3.580 |       |       | 60 | 35003  | 5.64  |        | 1.000 | 3.990  |       |       | 50 |
| 13092  |       |        | 1.000 |       | 4.240 |       | 70 | 83055  | 6.00  |        | 1.040 | 3.583  |       | .146  | 60 |
| 83006  |       |        | 1.000 |       | 3.410 |       | 60 | 70067  | 6.90  |        | 1.047 | -4.448 |       | .158  | 60 |
| 83005  |       |        | 1.000 |       | 3.350 |       | 50 | 13025  | 5.24  |        | 1.090 | 3.180  |       | .138  | 70 |
| 83004  |       |        | 1.000 |       | 3.200 |       | 40 |  |       |        |       |        |       |       |    |
|  |       |        |       |       |       |       |    | 31050  | 14.00 |        | .990  | 4.200  |       |       | 20 |
| 80037  | .29   |        | .989  | 9.207 | 3.802 |       | 25 | 34047  | 9.97  |        | 1.000 | 4.082  |       |       | 25 |
| 80036  | .94   | .02    | 1.002 | 8.468 | 2.933 |       | 25 | 14006  | 11.19 |        | 1.080 | 4.468  |       | .111  | 25 |
| 33097  | 1.01  | .10    | .980  | 9.800 | 2.800 |       | 25 | 11033  | 11.67 |        | 1.040 | 4.204  |       | -.933 | 25 |
| 80027  | .39   | .44    | 1.100 | 7.821 | 3.552 |       | 25 | 42011  | 15.00 |        | 1.010 | 3.667  |       | .129  | 25 |
| 80026  | .61   | .62    | 1.100 | 8.672 | 2.303 |       | 25 | 33098  | 10.45 | .10    | 1.010 | 4.500  | 1.000 |       | 25 |
| 34002  | 1.00  | 1.21   | .970  | 8.900 | 2.800 |       | 25 | 34003  | 9.00  | 1.06   | 1.000 | 4.700  | 1.600 |       | 25 |
| 34007  | 1.11  | 5.17   | .960  | 7.400 | 2.400 |       | 25 | 34008  | 8.45  | 3.39   | 1.010 | 4.500  | 1.680 |       | 25 |
| 34012  | 1.00  | 8.50   | .930  | 6.500 | 2.200 |       | 25 | 42012  | 14.50 | 5.60   | 1.030 | 3.862  | .802  | .126  | 25 |
| 34017  | .81   | 18.82  | 1.030 | 4.200 | 1.700 |       | 25 | 34013  | 9.73  | 8.31   | .980  | 4.100  | 1.360 |       | 25 |
|  |       |        |       |       |       |       |    | 42013  | 14.20 | 18.00  | .980  | 3.380  | .867  | .102  | 25 |
| 31052  | 2.10  |        | 1.020 | 6.571 |       |       | 20 | 34018  | 11.81 | 19.21  | .930  | 3.200  | 1.270 |       | 25 |
| 31051  | 6.15  |        | .990  | 5.073 |       |       | 20 | 42014  | 14.00 | 35.10  | 1.050 | 2.857  | .846  | .086  | 25 |
| 11032  | 3.79  |        | 1.030 | 6.478 |       | .175  | 25 |  |       |        |       |        |       |       |    |
| 42007  | 3.81  |        | .990  | 6.037 |       | .182  | 25 | 34076  | 11.24 |        | 1.000 | 3.585  |       |       | 35 |
| 34046  | 4.89  |        | 1.000 | 5.333 |       |       | 25 | 70027  | 12.86 |        | 1.050 | 3.574  |       | .127  | 40 |
| 80035  | 4.00  | .07    | 1.041 | 6.500 | 1.883 |       | 25 | 83032  | 10.60 |        | 1.080 | 3.821  |       | .120  | 45 |
| 80050  | 2.10  | .24    | .960  | 6.857 | 1.990 | -.240 | 25 | 35004  | 12.52 |        | 1.000 | 2.944  |       |       | 50 |
| 80025  | 7.35  | .71    | 1.090 | 6.401 | 1.765 |       | 25 | 83056  | 14.00 |        | 1.070 | 2.786  |       | .123  | 60 |
| 42008  | 3.02  | 4.37   | 1.040 | 6.755 | 1.911 | .163  | 25 | 70068  | 15.00 |        | 1.040 | 2.857  |       | .132  | 60 |
| 42009  | 5.60  | 10.80  | .950  | 4.821 | 1.370 | .147  | 25 |  |       |        |       |        |       |       |    |

Part I.1

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 0.9 TO 1.1 M (5)

AQUEOUS HNO3 FROM 0.9 TO 1.1 M (6)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  |
|--------|-------|--------|-------|--------|------|-------|----|--------|-------|--------|-------|-------|------|-------|----|
| 31089  | 21.50 |        | .911  | 2.837  |      |       | 20 | 70069  | 38.09 |        | .960  | 1.806 |      | .115  | 60 |
| 48033  | 17.28 |        | 1.000 | 3.154  |      |       | 25 | 13023  | 35.47 |        | 1.080 | 1.624 |      | .093  | 70 |
| 34048  | 23.66 |        | 1.000 | 2.697  |      |       | 25 |        |       |        |       |       |      |       |    |
| 11034  | 25.00 |        | 1.040 | 2.743  |      | .069  | 25 | 31048  | 63.51 |        | .920  | 1.548 |      |       | 20 |
|        |       |        |       |        |      |       |    | 31047  | 95.22 |        | 1.020 | 1.106 |      |       | 20 |
| 70054  | 15.24 |        | 1.024 | 2.578  |      | .114  | 50 | 57145  | 52.91 |        | 1.070 | 1.677 |      | .047  | 25 |
| 13024  | 19.28 |        | 1.090 | 2.220  |      | .119  | 70 | 34050  | 71.51 |        | 1.000 | 1.331 |      |       | 25 |
|        |       |        |       |        |      |       |    | 82004  | 74.01 |        | .970  | 1.216 |      | -.068 | 25 |
| 31096  | 29.91 |        | .980  | 2.492  |      |       | 20 | 42018  | 81.51 |        | .960  | 1.202 |      | -.094 | 25 |
| 31049  | 37.51 |        | .990  | 2.176  |      |       | 20 | 57233  | 82.84 |        | .928  | 1.158 |      | .031  | 25 |
| 32002  | 40.01 |        | .960  | 2.030  |      |       | 20 | 14010  | 85.69 |        | 1.010 | 1.194 |      | -.050 | 25 |
| 32009  | 49.31 |        | 1.060 | 1.846  |      |       | 20 | 11035  | 88.33 |        | 1.060 | 1.216 |      | -.050 | 25 |
| 82002  | 25.50 |        | .935  | -2.275 |      | .099  | 25 | 57146  | 90.32 |        | .980  | 1.140 |      | .031  | 25 |
| 42015  | 40.01 |        | .980  | 1.925  |      | -.102 | 25 | 48035  | 94.28 |        | 1.000 | 1.008 |      |       | 25 |
| 48034  | 41.90 |        | 1.000 | 1.977  |      |       | 25 | 34051  | 95.82 |        | 1.000 | 1.074 |      |       | 25 |
| 82003  | 47.01 |        | .960  | -1.447 |      | .079  | 25 | 34004  | 99.54 | 1.08   | 1.000 | 1.050 | .260 |       | 25 |
| 34049  | 47.41 |        | 1.000 | 1.783  |      |       | 25 | 42019  | 83.31 | 3.85   | 1.010 | 1.176 | .312 | -.089 | 25 |
| 80045  | 42.81 | .60    | 1.030 | 2.047  | .488 | -.107 | 25 | 34009  | 98.59 | 5.29   | 1.000 | 1.050 | .340 |       | 25 |
| 80024  | 27.60 | 1.20   | 1.100 | 2.754  | .619 |       | 25 | 34014  | 95.47 | 10.10  | .980  | 1.100 | .310 |       | 25 |
| 30053  | 35.01 | 2.50   | 1.000 |        | .800 |       | 25 | 34019  | 99.02 | 18.42  | .960  | 1.000 | .380 |       | 25 |
| 30054  | 35.01 | 5.00   | 1.000 |        | .850 |       | 25 | 42020  | 77.51 | 49.60  | 1.000 | 1.110 | .341 | .060  | 25 |
| 42016  | 40.41 | 5.03   | 1.040 | 1.881  | .457 | -.106 | 25 | 42021  | 78.01 | 111.00 | .930  | .872  | .323 | .065  | 25 |
| 30055  | 35.01 | 10.00  | 1.000 |        | .825 |       | 25 |        |       |        |       |       |      |       |    |
| 30056  | 35.01 | 20.00  | 1.000 |        | .750 |       | 25 | 34079  | 72.71 |        | 1.000 | 1.263 |      |       | 35 |
| 42017  | 35.01 | 38.00  | 1.040 | 1.800  | .571 | .067  | 25 | 34080  | 98.09 |        | 1.000 | 1.016 |      |       | 35 |
|        |       |        |       |        |      |       |    | 70029  | 62.38 |        | 1.020 | 1.416 |      | .064  | 40 |
| 34077  | 25.71 |        | 1.000 | 2.450  |      |       | 35 | 70030  | 85.23 |        | 1.010 | 1.145 |      | -.079 | 40 |
| 34078  | 43.09 |        | 1.000 | 1.796  |      |       | 35 | 35007  | 76.42 |        | 1.000 | 1.176 |      |       | 50 |
| 70028  | 36.66 |        | 1.030 | 1.993  |      | .087  | 40 | 70055  | 90.71 |        | .950  | 1.034 |      | -.075 | 50 |
| 35005  | 28.86 |        | 1.000 | 2.063  |      |       | 50 | 70008  | 53.33 |        | 1.000 | -.357 |      | -.100 | 55 |
| 35006  | 49.28 |        | 1.000 | 1.585  |      |       | 50 | 70009  | 72.85 |        | 1.000 | -.556 |      | .075  | 55 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 0.9 TO 1.1 M (7)

AQUEOUS HNO3 FROM 0.9 TO 1.1 M (8)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU  | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H   | T  |
|--------|--------|--------|-------|--------|-------|-------|----|--------|--------|--------|-------|------|------|-------|----|
| 70010  | 89.99  |        | 1.000 | -.714  |       | .050  | 55 | 34081  | 149.04 |        | 1.000 | .731 |      |       | 35 |
| 70070  | 61.42  |        | 1.020 | 1.360  |       | .080  | 60 | 70031  | 112.37 |        | 1.010 | .905 |      | -.045 | 40 |
| 70071  | 86.66  |        | 1.020 | 1.063  |       | -.083 | 60 | 57266  | 146.87 |        | 1.025 | .746 |      | .027  | 40 |
| 13022  | 57.14  |        | 1.070 | 1.392  |       | .069  | 70 | 57258  | 267.56 |        | 1.050 | .443 |      | .017  | 40 |
| 13072  | 59.52  |        | 1.000 | -1.120 |       | -.050 | 70 | 35008  | 101.04 |        | 1.000 | .978 |      |       | 50 |
| 13021  | 75.23  |        | 1.060 | 1.136  |       | .064  | 70 | 70056  | 136.42 |        | .948  | .768 |      | -.020 | 50 |
|        |        |        |       |        |       |       |    | 35009  | 149.28 |        | 1.000 | .729 |      |       | 50 |
| 31046  | 157.03 |        | 1.080 | .731   |       |       | 20 | 70057  | 234.75 |        | .950  | .502 |      | .016  | 50 |
| 31045  | 223.04 |        | 1.060 | .537   |       |       | 20 | 70072  | 113.09 |        | 1.025 | .853 |      | -.068 | 60 |
| 31043  | 346.06 |        | 1.100 | .353   |       |       | 20 | 57249  | 141.40 |        | 1.000 | .704 |      | .039  | 60 |
| 82005  | 108.02 |        | .980  | .935   |       | -.063 | 25 | 57240  | 249.23 |        | .966  | .434 |      | .028  | 60 |
| 11036  | 111.42 |        | 1.070 | 1.026  |       | .032  | 25 | 13001  | 122.61 |        | 1.000 | .818 |      | -.080 | 70 |
| 57227  | 136.40 |        | .971  | .777   |       | .019  | 25 | 13020  | 123.80 |        | 1.050 | .810 |      | .048  | 70 |
| 34052  | 146.72 |        | 1.000 | .755   |       |       | 25 | 13019  | 176.18 |        | 1.080 | .619 |      | .037  | 70 |
| 42022  | 163.03 |        | .990  | .681   |       | -.091 | 25 |        |        |        |       |      |      |       |    |
| 82006  | 180.03 |        | .985  | .617   |       |       | 25 |        |        |        |       |      |      |       |    |
| 57205  | 220.43 |        | .957  | .527   |       | .016  | 25 |        |        |        |       |      |      |       |    |
| 42026  | 330.06 |        | .990  | .358   |       | -.071 | 25 |        |        |        |       |      |      |       |    |
| 34000  | 152.03 | .11    | 1.000 | .750   | -.100 |       | 25 |        |        |        |       |      |      |       |    |
| 33099  | 104.52 | .12    | 1.000 | 1.000  | -.160 |       | 25 |        |        |        |       |      |      |       |    |
| 34005  | 147.39 | 1.09   | 1.010 | .760   | .220  |       | 25 |        |        |        |       |      |      |       |    |
| 42027  | 320.05 | 3.16   | 1.030 | .359   | .165  | -.049 | 25 |        |        |        |       |      |      |       |    |
| 42023  | 164.03 | 3.35   | 1.000 | .671   | .218  | -.080 | 25 |        |        |        |       |      |      |       |    |
| 34010  | 148.05 | 5.89   | 1.000 | .760   | .280  |       | 25 |        |        |        |       |      |      |       |    |
| 34015  | 145.47 | 9.91   | .990  | .790   | .230  |       | 25 |        |        |        |       |      |      |       |    |
| 34020  | 145.70 | 18.33  | .960  | .740   | .300  |       | 25 |        |        |        |       |      |      |       |    |
| 42024  | 149.03 | 48.20  | 1.020 | .658   | .249  | -.049 | 25 |        |        |        |       |      |      |       |    |
| 42028  | 310.05 | 51.00  | .980  | .342   | .179  | -.061 | 25 |        |        |        |       |      |      |       |    |
| 42029  | 320.05 | 93.00  | .940  | .319   | .159  | -.074 | 25 |        |        |        |       |      |      |       |    |
| 42025  | 155.03 | 112.00 | .990  | .510   | .207  | -.071 | 25 |        |        |        |       |      |      |       |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 1.1 TO 1.8 M (1)

AQUEOUS HNO3 FROM 1.1 TO 1.8 M (2)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU  | D-H  | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU   | D-H  | T  |
|--------|-------|--------|-------|---------|-------|------|----|--------|-------|--------|-------|--------|--------|------|----|
| 13082  |       |        | 1.400 |         | 3.900 |      | 0  | 51010  |       |        | 1.500 |        | 4.900  |      | 25 |
| 20004  |       |        | 1.420 |         |       | .215 | 20 | 10023  |       |        | 1.660 |        | -8.600 |      | 25 |
| 31003  |       |        | 1.580 |         |       | .222 | 20 | 10013  |       |        | 1.780 |        | 8.100  |      | 25 |
| 91007  |       |        | 1.643 | -24.488 |       | .219 | 20 | 53001  | .06   |        | 1.715 | 14.324 | -4.091 | .233 | 25 |
| 91006  |       |        | 1.249 | -7.830  |       | .222 | 20 | 51009  |       | .02    | 1.500 |        | 5.000  |      | 25 |
| 91019  |       |        | 1.645 | -24.497 |       | .220 | 20 | 56008  |       | .02    | 1.330 |        | 4.600  |      | 29 |
| 91018  | .01   |        | 1.251 | -15.526 |       | .223 | 20 | 51045  |       | .13    | 1.400 |        | 5.080  |      | 25 |
| 91031  | .03   |        | 1.635 | 17.385  |       | .212 | 20 | 53002  | .05   | .14    | 1.735 | 15.764 | 6.487  | .233 | 25 |
| 91030  | .04   |        | 1.244 | 11.899  |       | .227 | 20 | 51050  |       | .15    | 1.250 |        | 4.270  |      | 25 |
| 91043  | .05   |        | 1.689 | 18.286  |       | .233 | 20 | 51008  |       | .15    | 1.500 |        | 5.100  |      | 25 |
| 91042  | .06   |        | 1.344 | 14.451  |       | .222 | 20 | 51049  |       | .55    | 1.320 |        | 4.750  |      | 25 |
| 20039  |       |        | 1.490 |         |       | .240 | 22 | 51044  |       | .72    | 1.430 |        | 4.060  |      | 25 |
| 20040  |       |        | 1.750 |         |       | .244 | 22 | 51052  |       | 1.80   | 1.500 |        | 4.550  |      | 25 |
| 30025  |       |        | 1.120 |         |       | .205 | 23 | 51007  |       | 2.17   | 1.470 |        | 5.000  |      | 25 |
| 30026  |       |        | 1.360 |         |       | .213 | 23 | 43014  |       | 2.75   | 1.150 |        | -1.236 | .191 | 25 |
| 30027  |       |        | 1.570 |         |       | .217 | 23 | 51048  |       | 3.30   | 1.350 |        | 3.700  |      | 25 |
| 30028  |       |        | 1.700 |         |       | .218 | 23 | 51051  |       | 4.70   | 1.500 |        | 4.280  |      | 25 |
| 12009  |       |        | 1.240 |         |       | .225 | 25 | 51043  |       | 5.19   | 1.450 |        | 2.830  |      | 25 |
| 14003  |       |        | 1.530 |         |       | .222 | 25 | 51042  |       | 5.59   | 1.450 |        | -2.500 |      | 25 |
| 12010  |       |        | 1.600 |         |       | .229 | 25 | 51006  |       | 5.74   | 1.500 |        | 4.200  |      | 25 |
| 57196  | .02   |        | 1.640 | -5.450  |       | .226 | 25 | 51047  |       | 7.10   | 1.410 |        | 3.220  |      | 25 |
| 57121  | .02   |        | 1.675 | -5.444  |       | .221 | 25 | 53061  |       | 7.10   | 1.470 |        | 3.783  | .204 | 25 |
| 57170  | .02   |        | 1.670 | 18.644  |       | .220 | 25 | 43015  |       | 7.50   | 1.410 |        | -1.413 | .191 | 25 |
| 57171  | .06   |        | 1.680 | 16.608  |       | .218 | 25 | 55002  |       | 8.03   | 1.760 |        | 4.643  | .145 | 25 |
| 57172  | .12   |        | 1.660 | -12.500 |       | .223 | 25 | 55001  |       | 9.70   | 1.670 |        | 4.015  | .138 | 25 |
| 57122  | .12   |        | 1.620 | 15.806  |       | .216 | 25 | 51040  |       | 11.64  | 1.510 |        | -2.320 |      | 25 |
| 91167  |       |        | 1.720 | 15.643  |       | .211 | 30 | 51041  |       | 12.50  | 1.510 |        | -2.200 |      | 25 |
| 91166  | .01   |        | 1.678 | 13.616  |       | .215 | 30 | 43024  |       | 13.20  | 1.670 |        | -1.735 | .180 | 25 |
| 91165  | .05   |        | 1.674 | -7.298  |       | .210 | 30 | 42005  |       | 13.80  | 1.200 |        | 2.174  | .125 | 25 |
| 91164  | .05   |        | 1.679 | 13.893  |       | .209 | 30 | 51046  |       | 17.90  | 1.430 |        | 2.410  |      | 25 |
| 10045  |       |        | 1.490 |         | 5.060 | .233 | 30 | 51038  |       | 18.88  | 1.560 |        | 2.920  |      | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| AQUEOUS HNO3 FROM 1.1 TO 1.8 M (3) |       |        |       |        |        |      |    | AQUEOUS HNO3 FROM 1.1 TO 1.8 M (4) |       |        |       |         |       |       |    |
|------------------------------------|-------|--------|-------|--------|--------|------|----|------------------------------------|-------|--------|-------|---------|-------|-------|----|
| SOURCE                             | U-AQU | PU-AQU | H-AQU | D-U    | D-PU   | D-H  | T  | SOURCE                             | U-AQU | PU-AQU | H-AQU | D-U     | D-PU  | D-H   | T  |
| 51039                              |       | 21.75  | 1.560 |        | 2.360  |      | 25 | 56037                              |       | 6.48   | 1.400 |         | 3.960 |       | 40 |
| 43026                              |       | 22.95  | 1.690 |        | -1.786 | .160 | 25 | 56036                              |       | 7.05   | 1.410 |         | 3.590 |       | 31 |
| 20059                              |       |        | 1.490 |        |        | .226 | 40 | 55027                              |       | 29.88  | 1.140 |         | 1.608 |       | 31 |
| 91180                              |       |        | 1.731 | 9.285  |        | .206 | 50 | 91055                              | .27   |        | 1.650 | 16.225  |       | .209  | 20 |
| 91179                              | .01   |        | 1.727 | 12.021 |        | .212 | 50 | 91054                              | .37   |        | 1.250 | 11.578  |       | .210  | 20 |
| 91177                              | .07   |        | 1.692 | 8.814  |        | .202 | 50 | 91067                              | .80   |        | 1.542 | 14.357  |       | .201  | 20 |
| 91178                              | .08   |        | 1.680 | -3.855 |        | .207 | 50 | 91066                              | 1.21  |        | 1.117 | 9.016   |       | .160  | 20 |
| 20075                              |       |        | 1.390 |        |        | .225 | 60 | 91079                              | 1.76  |        | 1.670 | 13.180  |       | .175  | 20 |
| 20076                              |       |        | 1.470 |        |        | .222 | 60 | 57173                              | .22   |        | 1.660 | 13.091  |       | -.086 | 25 |
| 20077                              |       |        | 1.770 |        |        | .237 | 60 | 57123                              | .34   |        | 1.640 | 14.765  |       | .213  | 25 |
| 91193                              |       |        | 1.686 | 10.000 |        | .208 | 70 | 57124                              | .72   |        | 1.640 | 14.361  |       | .201  | 25 |
| 91192                              | .02   |        | 1.694 | -5.468 |        | .202 | 70 | 57125                              | 1.44  |        | 1.640 | 13.125  |       | .177  | 25 |
| 91191                              | .04   |        | 1.684 | 9.918  |        | .205 | 70 | 52001                              | 1.68  |        | 1.700 | 13.452  |       | .182  | 25 |
| 91190                              | .06   |        | 1.707 | 11.810 |        | .201 | 70 | 82007                              | 1.90  |        | 1.720 | -10.474 |       |       | 25 |
| 56004                              |       | .02    | 1.340 |        | 5.060  |      | 35 | 91163                              | .37   |        | 1.687 | -11.346 |       | .201  | 30 |
| 56009                              |       | .02    | 1.320 |        | 5.170  |      | 40 | 91162                              | .66   |        | 1.720 | 13.199  |       | .187  | 30 |
| 56005                              |       | .02    | 1.330 |        | 5.390  |      | 45 | 91161                              | 1.54  |        | 1.722 | -14.545 |       | .163  | 30 |
| 56010                              |       | .02    | 1.320 |        | 5.670  |      | 51 | 53003                              | .62   | .15    | 1.770 | 15.121  | 5.318 | .212  | 25 |
| 56006                              |       | .02    | 1.325 |        | 5.920  |      | 55 |                                    |       |        |       |         |       |       |    |
| 56011                              |       | .02    | 1.310 |        | 6.110  |      | 60 | 91176                              | .40   |        | 1.688 | 9.851   |       | .195  | 50 |
| 56007                              |       | .02    | 1.320 |        | 6.060  |      | 65 | 91175                              | .83   |        | 1.703 | 10.204  |       | .187  | 50 |
| 56012                              |       | .02    | 1.300 |        | 6.770  |      | 70 | 91189                              | .52   |        | 1.716 | 7.564   |       | .189  | 70 |
| 56045                              |       | 2.68   | 1.410 |        | 6.380  |      | 69 | 91188                              | 1.23  |        | 1.717 | 6.615   |       | .186  | 70 |
| 56044                              |       | 2.89   | 1.420 |        | 5.950  |      | 61 |                                    |       |        |       |         |       |       |    |
| 56043                              |       | 3.25   | 1.430 |        | 5.240  |      | 49 | 91078                              | 2.25  |        | 1.206 | 9.079   |       | .173  | 20 |
| 56042                              |       | 3.58   | 1.430 |        | 4.760  |      | 40 | 91091                              | 6.85  |        | 1.746 | 7.943   |       | .116  | 20 |
| 56041                              |       | 3.92   | 1.440 |        | 4.330  |      | 31 | 57147                              | 3.49  |        | 1.500 | 8.968   |       | .153  | 25 |
| 56040                              |       | 5.11   | 1.390 |        | 4.950  |      | 70 | 82008                              | 4.40  |        | 1.790 | 8.864   |       |       | 25 |
| 56039                              |       | 5.50   | 1.400 |        | 4.650  |      | 60 | 53004                              | 2.52  | .18    | 1.780 | -8.290  | 3.845 | .185  | 25 |
| 56038                              |       | 5.97   | 1.410 |        | 4.380  |      | 50 |                                    |       |        |       |         |       |       |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 1.1 TO 1.8 M (5)

AQUEOUS HNO3 FROM 1.1 TO 1.8 M (6)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU  | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  |
|--------|-------|--------|-------|--------|-------|-------|----|--------|--------|--------|-------|-------|-------|-------|----|
| 91174  | 2.42  |        | 1.721 | 8.694  |       | .152  | 50 | 70011  | 52.85  |        | 1.500 | -.306 |       | -.097 | 55 |
| 70073  | 5.24  |        | 1.537 | 6.270  |       | .135  | 60 | 70020  | 57.14  |        | 1.500 | 1.625 |       | .073  | 55 |
| 91187  | 3.13  |        | 1.715 | 6.605  |       | .160  | 70 | 70012  | 72.61  |        | 1.500 | -.492 |       | -.077 | 55 |
|        |       |        |       |        |       |       |    | 70013  | 86.90  |        | 1.500 | -.712 |       | .063  | 55 |
| 32016  | 8.61  |        | 1.490 | 5.865  |       |       | 20 | 70075  | 61.42  |        | 1.492 | 1.400 |       | .086  | 60 |
| 91090  | 8.62  |        | 1.410 | 6.223  |       | .112  | 20 | 83058  | 73.51  |        | 1.140 | 1.102 |       | .079  | 60 |
| 32015  | 10.40 |        | 1.220 | 4.846  |       |       | 20 | 70076  | 88.80  |        | 1.475 | 1.050 |       | .071  | 60 |
| 80034  | 14.80 | .24    | 1.106 | 4.081  | 1.016 |       | 25 | 56070  | 80.71  | 9.06   | 1.785 | .986  | 1.435 |       | 69 |
|        |       |        |       |        |       |       |    | 56069  | 75.71  | 9.94   | 1.795 | 1.074 | 1.265 |       | 59 |
| 32023  | 19.60 |        | 1.610 | 3.765  |       |       | 20 | 56068  | 72.85  | 11.28  | 1.800 | 1.174 | 1.060 |       | 50 |
| 31090  | 20.50 |        | 1.520 | 3.683  |       |       | 20 |        |        |        |       |       |       |       |    |
|        |       |        |       |        |       |       |    | 91129  | 126.23 |        | 1.593 | .910  |       | -.014 | 20 |
| 32022  | 25.50 |        | 1.170 | 2.878  |       |       | 20 | 91140  | 163.63 |        | 1.649 | .716  |       | -.026 | 20 |
| 91103  | 33.25 |        | 1.588 | 2.578  |       | -.037 | 20 | 91148  | 234.04 |        | 1.433 | .509  |       | -.021 | 20 |
| 91102  | 37.28 |        | 1.263 | 2.267  |       | -.036 | 20 | 31044  | 286.05 |        | 1.120 | .424  |       |       | 20 |
| 32003  | 39.31 |        | 1.400 | 2.285  |       |       | 20 | 57218  | 192.34 |        | 1.247 | .595  |       | .016  | 25 |
| 70003  | 27.38 |        | 1.500 | 2.957  |       | .073  | 25 | 80032  | 105.62 | 1.11   | 1.191 | .975  | .269  |       | 25 |
|        |       |        |       |        |       |       |    | 80031  | 184.03 | 1.68   | 1.184 | .603  | .159  |       | 25 |
| 83033  | 32.91 |        | 1.130 | 2.076  |       | .088  | 45 | 80021  | 184.03 | 1.69   | 1.170 | .630  | .172  |       | 25 |
| 70019  | 30.95 |        | 1.500 | 2.540  |       | .073  | 55 | 40064  | 312.05 | 97.20  | 1.780 | .298  | .257  | .028  | 26 |
| 70074  | 32.38 |        | 1.532 | 2.220  |       | .101  | 60 |        |        |        |       |       |       |       |    |
| 83057  | 37.81 |        | 1.110 | 1.791  |       | .095  | 60 | 83035  | 104.02 |        | 1.170 | .947  |       | -.066 | 45 |
| 13067  | 35.71 |        | 1.320 | -1.267 |       | .083  | 70 | 83036  | 162.03 |        | 1.180 | .623  |       | -.058 | 45 |
|        |       |        |       |        |       |       |    | 83059  | 113.02 |        | 1.160 | .841  |       | -.071 | 60 |
| 91116  | 78.22 |        | 1.470 | 1.360  |       | -.058 | 20 | 83060  | 160.53 |        | 1.160 | .640  |       | -.066 | 60 |
| 70004  | 52.38 |        | 1.500 | 1.864  |       | -.073 | 25 |        |        |        |       |       |       |       |    |
| 80033  | 56.01 | .71    | 1.145 | 1.696  | .430  |       | 25 |        |        |        |       |       |       |       |    |
| 80023  | 58.01 | 1.49   | 1.220 | 1.759  | -.313 |       | 25 |        |        |        |       |       |       |       |    |
| 80022  | 99.22 | 1.63   | 1.190 | 1.137  | .232  |       | 25 |        |        |        |       |       |       |       |    |
| 83034  | 66.11 |        | 1.140 | 1.268  |       | -.076 | 45 |        |        |        |       |       |       |       |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 1.8 TO 2.1 M (1)

AQUEOUS HNO3 FROM 1.8 TO 2.1 M (2)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU   | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU   | D-H  | T  |
|--------|-------|--------|-------|---------|--------|-------|----|--------|-------|--------|-------|--------|--------|------|----|
| 20005  |       |        | 1.980 |         |        | .217  | 20 | 53024  | .11   | 4.53   | 1.890 | -.643  | 4.260  | .180 | 25 |
| 91008  |       |        | 2.090 | -30.616 |        | .222  | 20 | 53018  | .02   | 4.85   | 1.890 | -1.735 | 4.016  | .180 | 25 |
| 91020  |       |        | 2.084 | -41.743 |        | .217  | 20 | 30058  |       | 5.00   | 2.000 |        | 5.300  |      | 25 |
| 91056  | .18   |        | 2.100 | 24.815  |        | .213  | 20 | 33036  |       | 5.00   | 2.000 |        | 5.350  |      | 25 |
| 52051  |       |        | 1.805 |         |        | .233  | 25 | 40006  |       | 5.90   | 2.090 |        | 5.169  | .153 | 26 |
| 12011  |       |        | 2.030 |         |        | .229  | 25 | 33013  |       | 7.00   | 2.000 |        | 4.814  |      | 25 |
| 20093  |       |        | 1.860 |         |        | .242  | 30 | 40007  |       | 7.10   | 2.040 |        | 4.535  | .147 | 26 |
| 30003  |       |        | 2.000 |         | 6.000  |       | 22 | 40008  |       | 8.50   | 2.000 |        | 4.118  | .145 | 26 |
| 33054  |       |        | 2.000 |         | 8.900  |       | 23 | 43023  |       | 9.60   | 1.880 |        | -2.323 | .165 | 25 |
| 11055  |       |        | 2.000 |         | 6.300  |       | 25 | 30059  |       | 10.00  | 2.000 |        | 4.000  |      | 25 |
| 10046  |       |        | 2.060 |         | 8.270  | .225  | 30 | 33037  |       | 10.00  | 2.000 |        | 4.050  |      | 25 |
| 83009  |       |        | 2.000 |         | 8.030  |       | 30 | 55011  |       | 10.66  | 1.970 |        | 4.070  | .160 | 28 |
| 83008  |       |        | 2.000 |         | 7.110  |       | 20 | 33014  |       | 16.00  | 2.000 |        | 3.125  |      | 25 |
| 83007  |       |        | 2.000 |         | 6.430  |       | 10 | 30060  |       | 20.00  | 2.000 |        | 2.875  |      | 25 |
| 10002  |       |        | 2.000 |         | 8.000  |       | 25 | 33038  |       | 20.00  | 2.000 |        | 2.900  |      | 25 |
| 33050  |       | .01    | 1.990 |         | 9.060  |       | 25 | 43025  |       | 20.40  | 1.890 |        | -1.819 | .111 | 25 |
| 68006  |       | .01    | 1.970 |         | 5.510  |       | 23 | 33015  |       | 27.20  | 2.000 |        | 2.379  |      | 25 |
| 40001  |       | .02    | 2.020 |         | 7.647  | .223  | 26 | 43027  |       | 29.00  | 1.930 |        | 1.690  | .114 | 25 |
| 80070  |       | .02    | 2.030 |         | 8.460  |       | 25 | 43028  |       | 30.30  | 1.940 |        | 1.587  | .113 | 25 |
| 43019  |       | .10    | 1.990 |         | -2.552 | .211  | 25 | 33016  |       | 37.20  | 2.000 |        | 2.016  |      | 25 |
| 40002  |       | .15    | 2.020 |         | 6.753  | .218  | 26 | 33039  |       | 50.00  | 2.000 |        | 1.850  |      | 25 |
| 43020  |       | .48    | 1.970 |         | -2.479 | .223  | 25 |        |       |        |       |        |        |      |    |
| 40003  |       | .69    | 2.070 |         | 7.536  | -.188 | 26 | 20060  |       |        | 1.870 |        |        | .234 | 40 |
| 43021  |       | .93    | 1.920 |         | -2.430 | .219  | 25 | 20061  |       |        | 1.870 |        |        | .235 | 40 |
| 40004  |       | 1.44   | 2.040 |         | 6.458  | .206  | 26 | 83080  |       |        | 1.950 |        |        | .243 | 45 |
| 33011  |       | 1.50   | 2.000 |         | 6.667  |       | 25 | 83084  |       |        | 2.000 |        |        | .223 | 60 |
| 33035  |       | 2.00   | 2.000 |         | 7.150  |       | 25 | 83012  |       |        | 2.000 |        | 11.260 |      | 60 |
| 30057  |       | 2.50   | 2.000 |         | 6.500  |       | 25 | 83011  |       |        | 2.000 |        | 10.380 |      | 50 |
| 43022  |       | 2.72   | 2.020 |         | -2.500 | -.223 | 25 | 83010  |       |        | 2.000 |        | 9.160  |      | 40 |
| 33012  |       | 3.50   | 2.000 |         | 6.000  |       | 25 | 55016  |       | 13.46  | 2.000 |        | 3.464  | .145 | 31 |
| 40005  |       | 4.33   | 2.050 |         | 5.058  | .176  | 26 |        |       |        |       |        |        |      |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 1.8 TO 2.1 M (3)

AQUEOUS HNO3 FROM 1.8 TO 2.1 M (4)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU   | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU   | D-H   | T  |
|--------|-------|--------|-------|---------|--------|-------|----|--------|-------|--------|-------|--------|--------|-------|----|
| 91068  | .59   |        | 1.978 | 19.576  |        | .197  | 20 | 70032  | 2.62  |        | 2.030 | 11.810 |        | .174  | 40 |
| 91080  | 1.13  |        | 2.033 | 19.437  |        | .171  | 20 | 83037  | 2.64  |        | 2.080 | 10.606 |        | .179  | 45 |
| 57182  | .42   |        | 2.030 | 20.952  |        | -.261 | 25 | 35010  | 4.12  |        | 2.000 | 7.820  |        |       | 50 |
| 52041  | 1.63  |        | 1.848 | 13.350  |        | .180  | 25 | 70077  | 3.10  |        | 2.070 | 8.770  |        | .173  | 60 |
| 40009  | .41   |        | 1.970 | 17.073  |        | .218  | 26 | 83061  | 3.60  |        | 2.050 | 7.083  |        | .175  | 60 |
| 80087  | .30   |        | 2.000 | -26.000 | 8.059  |       | 25 | 13034  | 3.81  |        | 1.890 | 6.060  |        | .159  | 70 |
| 80086  | .70   | .01    | 2.020 | -21.571 | 7.066  |       | 25 |        |       |        |       |        |        |       |    |
| 37001  | 1.67  | .02    | 2.000 |         | 4.300  |       | 22 | 82009  | 8.40  |        | 1.850 | 6.810  |        |       | 25 |
| 80085  | 1.66  | .03    | 2.020 | -18.072 | 5.176  |       | 25 | 34054  | 9.70  |        | 2.000 | 6.330  |        |       | 25 |
| 81000  | .40   | .03    | 1.990 |         | 7.500  | .216  | 25 | 48036  | 10.14 |        | 2.000 | 6.056  |        |       | 25 |
| 40010  | .43   | .16    | 2.070 | 14.884  | 6.125  | .198  | 26 | 82010  | 14.50 |        | 1.890 | 4.828  |        |       | 25 |
| 81001  | .40   | .21    | 1.980 |         | 7.055  | .212  | 25 | 40021  | 11.40 |        | 2.020 | 6.316  |        | .099  | 26 |
| 40011  | .50   | .80    | 2.030 | 12.200  | 5.750  | .202  | 26 | 37003  | 11.43 | .02    | 2.000 |        | -1.400 |       | 22 |
| 40012  | .54   | 3.40   | 1.990 | 9.444   | 5.676  | .171  | 26 | 40022  | 12.30 | .16    | 2.030 | 5.366  | 1.575  | .103  | 26 |
| 40013  | .50   | 4.00   | 2.010 | 10.800  | 5.375  | .154  | 26 | 53006  | 8.37  | .28    | 1.860 | 7.316  | 2.587  | .108  | 25 |
| 40014  | .47   | 8.30   | 1.940 | 8.298   | 3.940  | .139  | 26 | 53007  | 14.65 | .41    | 1.915 | 5.314  | 1.454  | .078  | 25 |
| 40015  | .55   | 10.30  | 2.010 | 6.364   | 4.058  | .109  | 26 | 40023  | 10.90 | .68    | 2.070 | 5.780  | 1.765  | .101  | 26 |
|        |       |        |       |         |        |       |    | 40024  | 12.80 | 3.36   | 2.000 | 4.687  | 1.604  | .095  | 26 |
| 51074  | 2.62  |        | 1.997 | -9.100  |        |       | 25 | 40025  | 14.10 | 11.50  | 2.000 | 4.113  | 1.357  | .095  | 26 |
| 34053  | 4.33  |        | 2.000 | 9.630   |        |       | 25 |        |       |        |       |        |        |       |    |
| 40016  | 2.80  |        | 2.020 | 12.857  |        | .163  | 26 | 34083  | 10.98 |        | 2.000 | 5.600  |        |       | 35 |
| 91160  | 6.97  |        | 1.819 | 7.330   |        | .111  | 30 | 91173  | 9.01  |        | 1.824 | 5.394  |        | .109  | 50 |
| 37002  | 3.10  | .02    | 2.000 |         | 3.300  |       | 22 | 70058  | 10.24 |        | 2.038 | 4.950  |        | .117  | 50 |
| 80084  | 6.50  | .09    | 2.040 | 9.046   | 3.000  |       | 25 | 35011  | 12.48 |        | 2.000 | 4.696  |        |       | 50 |
| 53005  | 5.54  | .23    | 1.815 | 7.389   | 2.966  | .149  | 25 | 70078  | 10.71 |        | 2.080 | 4.310  |        | -.086 | 60 |
| 40017  | 2.80  | .41    | 2.030 | 12.500  | -1.463 | .148  | 26 | 13033  | 10.00 |        | 1.970 | 4.570  |        | .127  | 70 |
| 40018  | 2.80  | .72    | 2.100 | 12.143  | 4.306  | .152  | 26 | 91186  | 11.79 |        | 1.817 | 4.011  |        | .114  | 70 |
| 40019  | 2.80  | 4.30   | 2.020 | 11.071  | 3.302  | .139  | 26 |        |       |        |       |        |        |       |    |
| 40020  | 3.50  | 11.30  | 1.970 | 8.000   | 2.708  | .122  | 26 | 31091  | 21.60 |        | 2.000 | 3.801  |        |       | 20 |
|        |       |        |       |         |        |       |    | 34055  | 20.80 |        | 2.000 | 3.841  |        |       | 25 |
| 34082  | 3.50  |        | 2.000 | 9.690   |        |       | 35 | 82011  | 21.50 |        | 1.920 | 3.674  |        |       | 25 |



DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| AQUEOUS HNO3 FROM 1.8 TO 2.1 M (5) |       |        |       |       |       |       |    | AQUEOUS HNO3 FROM 1.8 TO 2.1 M (6) |       |        |       |       |       |       |    |
|------------------------------------|-------|--------|-------|-------|-------|-------|----|------------------------------------|-------|--------|-------|-------|-------|-------|----|
| SOURCE                             | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  | SOURCE                             | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  |
| 37004                              | 17.38 | .02    | 2.000 |       | 1.000 |       | 22 | 40033                              | 40.01 | 11.20  | 1.930 | 2.125 | .652  | .062  | 26 |
| 40028                              | 24.80 | .10    | 2.050 | 3.669 | 1.162 | .083  | 26 | 40034                              | 36.01 | 17.40  | 2.020 | 2.083 | .885  | .064  | 26 |
| 53008                              | 24.85 | .53    | 1.940 | 3.555 | .816  | .052  | 25 | 30064                              | 40.01 | 20.00  | 2.000 |       | -.950 |       | 25 |
| 40026                              | 16.90 | 18.20  | 2.020 | 3.432 | 1.473 | .089  | 26 | 40035                              | 50.01 | 43.70  | 1.910 | 1.580 | .600  | .052  | 26 |
| 34084                              | 23.21 |        | 2.000 | 3.400 |       |       | 35 | 34085                              | 42.71 |        | 2.000 | 2.145 |       |       | 35 |
| 13032                              | 20.47 |        | 1.890 | 3.090 |       | .122  | 70 | 70034                              | 27.38 |        | 2.050 | 2.930 |       | .082  | 40 |
| 91104                              | 28.45 |        | 2.085 | 3.251 |       | .042  | 20 | 35012                              | 26.43 |        | 2.000 | 2.884 |       |       | 50 |
| 32004                              | 39.71 |        | 1.860 | 2.484 |       |       | 20 | 70059                              | 28.57 |        | 2.028 | 2.610 |       | .090  | 50 |
| 82012                              | 26.00 |        | 1.940 | 3.154 |       |       | 25 | 91172                              | 34.90 |        | 1.925 | 2.389 |       | .066  | 50 |
| 52002                              | 26.90 |        | 1.920 | 3.431 |       | .054  | 25 | 35013                              | 49.04 |        | 2.000 | 1.850 |       |       | 50 |
| 82013                              | 31.01 |        | 1.950 | 2.806 |       |       | 25 | 70079                              | 27.14 |        | 1.990 | 2.579 |       | .077  | 60 |
| 51075                              | 36.66 |        | 1.998 | 2.600 |       |       | 25 | 13031                              | 31.66 |        | 1.940 | 2.440 |       | .108  | 70 |
| 82014                              | 37.01 |        | 1.960 | 2.405 |       |       | 25 | 91185                              | 39.80 |        | 1.880 | 1.961 |       | .068  | 70 |
| 82015                              | 41.01 |        | 1.960 | 2.195 |       |       | 25 | 91117                              | 77.89 |        | 1.896 | 1.400 |       | .030  | 20 |
| 52003                              | 43.91 |        | 1.910 | 2.278 |       | .042  | 25 | 48037                              | 50.71 |        | 2.000 | 1.967 |       |       | 25 |
| 34056                              | 46.61 |        | 2.000 | 2.032 |       |       | 25 | 82016                              | 54.01 |        | 1.990 | 1.833 |       |       | 25 |
| 40027                              | 34.51 |        | 2.050 | 2.783 |       | -.078 | 26 | 52004                              | 60.81 |        | 1.950 | 1.743 |       | .036  | 25 |
| 91159                              | 30.56 |        | 1.952 | 2.843 |       | .059  | 30 | 82017                              | 66.31 |        | 2.000 | 1.531 |       |       | 25 |
| 19035                              | 49.81 |        | 2.000 |       | -.460 |       | 25 | 34057                              | 72.81 |        | 2.000 | 1.435 |       |       | 25 |
| 37005                              | 37.38 | .02    | 2.000 |       | -.530 |       | 22 | 57234                              | 74.74 |        | 2.010 | 1.360 |       | .031  | 25 |
| 40029                              | 45.91 | .13    | 2.100 | 2.200 | .662  | -.076 | 26 | 52005                              | 81.66 |        | 1.945 | 1.359 |       | .031  | 25 |
| 40030                              | 29.40 | .59    | 2.050 | 3.129 |       | -.083 | 26 | 48038                              | 85.47 |        | 2.000 | 1.298 |       |       | 25 |
| 53009                              | 40.86 | .62    | 2.038 | 2.392 | .647  | .044  | 25 | 82018                              | 96.02 |        | 2.015 | 1.094 |       |       | 25 |
| 80082                              | 49.01 | .62    | 2.070 | 2.122 | .605  |       | 25 | 34058                              | 97.12 |        | 2.000 | 1.119 |       |       | 25 |
| 40031                              | 49.61 | .72    | 2.080 | 2.056 | .639  | -.072 | 26 | 40037                              | 82.01 |        | 2.020 | 1.293 |       | -.050 | 26 |
| 30061                              | 40.01 | 2.50   | 2.000 |       | .700  |       | 25 | 91158                              | 76.01 |        | 1.957 | 1.362 |       | .034  | 30 |
| 40032                              | 36.01 | 2.68   | 1.940 | 2.500 | .899  | -.072 | 26 | 40038                              | 80.01 | .11    | 1.970 | 1.337 | .395  | -.056 | 26 |
| 30062                              | 40.01 | 5.00   | 2.000 |       | .700  |       | 25 | 40039                              | 84.01 | .47    | 2.000 | 1.262 | .362  | -.055 | 26 |
| 30063                              | 40.01 | 10.00  | 2.000 |       | .800  |       | 25 | 40040                              | 82.01 | 3.11   | 1.980 | 1.256 | .457  | -.056 | 26 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 1.8 TO 2.1 M (7)

AQUEOUS HNO3 FROM 1.8 TO 2.1 M (8)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  |
|--------|-------|--------|-------|-------|-------|-------|----|--------|--------|--------|-------|-------|-------|-------|----|
| 40041  | 85.01 | 10.70  | 2.030 | 1.176 | .439  | -.054 | 26 | 56067  | 68.57  | 13.07  | 1.810 | 1.310 | .790  |       | 41 |
| 40042  | 87.01 | 19.50  | 2.060 | 1.115 | .462  | -.053 | 26 | 56076  | 70.47  | 14.20  | 2.060 | 1.360 | .620  |       | 31 |
| 40043  | 87.01 | 40.60  | 2.070 | 1.080 | .429  | .048  | 26 | 56066  | 64.76  | 14.96  | 1.810 | 1.440 | .600  |       | 30 |
| 40036  | 53.01 | 72.70  | 2.010 | 1.283 | .568  | .050  | 26 |        |        |        |       |       |       |       |    |
| 40044  | 99.02 | 78.60  | 2.020 | .828  | .394  | .040  | 26 | 91149  | 240.90 |        | 1.858 | .498  |       | .018  | 20 |
| 40045  | 92.02 | 96.20  | 1.990 | .826  | .436  | .035  | 26 | 52006  | 102.52 |        | 1.975 | 1.107 |       | .026  | 25 |
|        |       |        |       |       |       |       |    | 48039  | 121.18 |        | 2.000 | .961  |       |       | 25 |
| 34086  | 73.33 |        | 2.000 | 1.402 |       |       | 35 | 52007  | 125.52 |        | 1.970 | .920  |       | .024  | 25 |
| 70035  | 61.66 |        | 1.940 | 1.644 |       | .058  | 40 | 57226  | 135.92 |        | 1.980 | .785  |       | .020  | 25 |
| 70036  | 88.57 |        | 1.890 | 1.204 |       | .048  | 40 | 34059  | 146.92 |        | 2.000 | .770  |       |       | 25 |
| 35014  | 76.52 |        | 2.000 | 1.301 |       |       | 50 | 57216  | 196.14 |        | 1.980 | .581  |       | .016  | 25 |
| 91171  | 78.43 |        | 2.001 | 1.290 |       | -.036 | 50 | 48040  | 280.93 |        | 2.000 | .426  |       |       | 25 |
| 70060  | 84.52 |        | 1.830 | 1.186 |       | .057  | 50 | 40046  | 162.03 |        | 2.010 | .673  |       | -.040 | 26 |
| 70014  | 50.23 |        | 2.000 | -.313 |       | -.100 | 55 | 40055  | 316.05 |        | 2.020 | .370  |       | -.035 | 26 |
| 70015  | 75.23 |        | 2.000 | -.418 |       | -.075 | 55 | 91157  | 129.02 |        | 1.983 | .856  |       | .024  | 30 |
| 70016  | 89.28 |        | 2.000 | -.635 |       | .047  | 55 | 91155  | 243.75 |        | 2.016 | .480  |       | .015  | 30 |
| 70080  | 63.09 |        | 1.990 | 1.351 |       | .065  | 60 | 37006  | 123.33 | .02    | 2.000 |       | -.180 |       | 22 |
| 70081  | 89.04 |        | 1.960 | 1.115 |       | .060  | 60 | 40056  | 314.05 | .10    | 1.930 | .373  | .194  | -.047 | 26 |
| 13030  | 52.38 |        | 1.960 | 1.680 |       | .097  | 70 | 40047  | 166.03 | .12    | 2.000 | .663  | .297  | -.030 | 26 |
| 13029  | 71.90 |        | 1.970 | 1.325 |       | -.041 | 70 | 40057  | 301.05 | .51    | 2.040 | .392  | .198  | -.049 | 26 |
| 91184  | 84.31 |        | 1.959 | 1.132 |       | .043  | 70 | 40048  | 164.03 | .58    | 2.010 | .659  | .266  | -.035 | 26 |
| 13028  | 97.85 |        | 2.040 | 1.071 |       | -.029 | 70 | 40058  | 332.06 | 1.17   | 2.020 | .352  | .206  | -.040 | 26 |
| 57000  | 75.23 | 4.64   | 1.860 | 1.100 | 1.740 |       | 70 | 40049  | 156.03 | 3.18   | 2.090 | .686  | .274  | -.029 | 26 |
| 56099  | 71.66 | 5.38   | 1.870 | 1.196 | 1.440 |       | 60 | 40059  | 324.05 | 3.30   | 2.060 | .358  | .197  | -.034 | 26 |
| 56098  | 68.57 | 6.29   | 1.880 | 1.306 | 1.120 |       | 50 | 40060  | 330.06 | 10.30  | 1.990 | .348  | .214  | -.035 | 26 |
| 56097  | 65.71 | 7.27   | 1.890 | 1.426 | .860  |       | 40 | 40050  | 156.03 | 11.00  | 2.010 | .673  | .273  | -.045 | 26 |
| 56080  | 84.76 | 8.25   | 1.990 | .950  | 1.630 |       | 70 | 40061  | 293.05 | 20.60  | 2.020 | .386  | .209  | -.040 | 26 |
| 56096  | 61.66 | 8.27   | 1.900 | 1.560 | .656  |       | 31 | 40051  | 149.03 | 21.80  | 2.080 | .685  | .284  | -.043 | 26 |
| 56079  | 80.71 | 9.39   | 1.990 | 1.010 | 1.345 |       | 60 | 40062  | 326.05 | 36.90  | 1.880 | .334  | .222  | -.032 | 26 |
| 56078  | 77.14 | 10.80  | 2.020 | 1.100 | 1.070 |       | 50 | 40052  | 144.02 | 43.00  | 2.090 | .694  | .314  | -.043 | 26 |
| 56077  | 74.04 | 12.74  | 2.030 | 1.236 | .800  |       | 40 | 40053  | 165.03 | 74.00  | 2.020 | .582  | .280  | -.045 | 26 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 1.8 TO 2.1 M (9)

AQUEOUS HNO3 FROM 2.1 TO 2.75 M (1)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU    | D-H  | T  |
|--------|--------|--------|-------|-------|------|-------|----|--------|-------|--------|-------|---------|---------|------|----|
| 40063  | 303.05 | 78.00  | 1.840 | .323  | .246 | -.038 | 26 | 13083  |       |        | 2.160 |         | 6.600   |      | 0  |
| 40054  | 161.03 | 90.00  | 2.020 | .559  | .319 | -.045 | 26 | 31004  |       |        | 2.150 |         |         | .223 | 20 |
|        |        |        |       |       |      |       |    | 20006  |       |        | 2.720 |         |         | .223 | 20 |
| 34087  | 101.18 |        | 2.000 | 1.045 |      |       | 35 | 91009  |       |        | 2.540 | -45.997 |         | .215 | 20 |
| 34088  | 149.99 |        | 2.000 | .742  |      |       | 35 | 91021  |       |        | 2.540 | -50.893 |         | .213 | 20 |
| 70037  | 122.85 |        | 1.910 | .895  |      | .037  | 40 | 91033  | .02   |        | 2.553 | 28.048  |         | .206 | 20 |
| 57267  | 147.11 |        | 1.970 | .764  |      | .027  | 40 | 91032  | .02   |        | 2.110 | 22.702  |         | .215 | 20 |
| 57259  | 267.08 |        | 2.030 | .445  |      | .017  | 40 | 91044  | .03   |        | 2.189 | -38.112 |         | .218 | 20 |
| 35015  | 101.66 |        | 2.000 | 1.032 |      |       | 50 | 91045  | .03   |        | 2.610 | 29.559  |         | .212 | 20 |
| 70061  | 124.99 |        | 1.914 | .890  |      | -.024 | 50 | 91057  | .14   |        | 2.603 | -33.390 |         | .197 | 20 |
| 91170  | 131.30 |        | 1.990 | .820  |      | .028  | 50 | 20041  |       |        | 2.210 |         |         | .247 | 22 |
| 35016  | 149.28 |        | 2.000 | .742  |      |       | 50 | 20042  |       |        | 2.400 |         |         | .243 | 22 |
| 91169  | 170.39 |        | 1.986 | .658  |      | .023  | 50 | 30029  |       |        | 2.310 |         |         | .216 | 23 |
| 91168  | 245.90 |        | 2.009 | .471  |      | -.015 | 50 | 11013  |       |        | 2.130 |         |         | .216 | 25 |
| 70082  | 109.04 |        | 1.900 | .952  |      | .053  | 60 | 12012  |       |        | 2.430 |         |         | .226 | 25 |
| 57250  | 139.25 |        | 2.020 | .733  |      | .044  | 60 | 52052  |       |        | 2.670 |         |         | .217 | 25 |
| 57242  | 249.70 |        | 1.940 | .430  |      | .027  | 60 | 57174  | .01   |        | 2.300 | -41.667 |         | .242 | 25 |
| 91183  | 136.73 |        | 1.962 | .761  |      | .041  | 70 | 11004  | .01   |        | 2.190 | 18.700  |         |      | 25 |
| 13027  | 147.61 |        | 2.010 | .727  |      | -.015 | 70 | 57175  | .04   |        | 2.550 | 22.624  |         | .216 | 25 |
| 91182  | 177.84 |        | 1.947 | .607  |      | .038  | 70 | 57126  | .07   |        | 2.460 | 27.857  |         | .211 | 25 |
| 13026  | 202.37 |        | 2.030 | .585  |      | -.010 | 70 | 57176  | .09   |        | 2.540 | -17.647 |         | .217 | 25 |
| 91181  | 253.04 |        | 2.005 | .443  |      | .033  | 70 | 57177  | .12   |        | 2.500 | 25.167  |         | .208 | 25 |
|        |        |        |       |       |      |       |    | 57127  | .20   |        | 2.490 | 25.650  |         | .205 | 25 |
|        |        |        |       |       |      |       |    | 20094  |       |        | 2.750 |         |         | .237 | 30 |
|        |        |        |       |       |      |       |    | 19011  |       |        | 2.200 |         | 8.450   |      | 25 |
|        |        |        |       |       |      |       |    | 51005  |       |        | 2.700 |         | 11.200  |      | 25 |
|        |        |        |       |       |      |       |    | 10014  |       |        | 2.130 |         | 10.400  |      | 25 |
|        |        |        |       |       |      |       |    | 10015  |       |        | 2.400 |         | 11.300  |      | 25 |
|        |        |        |       |       |      |       |    | 51004  |       | .01    | 2.700 |         | 11.000  |      | 25 |
|        |        |        |       |       |      |       |    | 53015  | .13   | .05    | 2.600 | -10.423 | -15.688 | .219 | 25 |
|        |        |        |       |       |      |       |    | 53022  | .15   | .07    | 2.600 | -4.303  | -18.819 | .219 | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 2.1 TO 2.75 M (2)

AQUEOUS HNO3 FROM 2.1 TO 2.75 M (3)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU   | D-H  | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU   | D-H   | T  |
|--------|-------|--------|-------|---------|--------|------|----|--------|-------|--------|-------|---------|--------|-------|----|
| 51028  |       | .07    | 2.520 |         | -8.000 |      | 25 | 56001  |       | .02    | 2.610 |         | 14.320 |       | 49 |
| 51037  |       | .07    | 2.650 |         | -7.520 |      | 25 | 55097  |       | .02    | 2.610 |         | 15.560 |       | 54 |
| 53049  | .04   | .08    | 2.545 | 27.394  | 11.724 | .230 | 25 | 56002  |       | .02    | 2.590 |         | 15.910 |       | 60 |
| 51003  |       | .09    | 2.700 |         | 10.500 |      | 25 | 55098  |       | .02    | 2.600 |         | 17.200 |       | 65 |
| 51030  |       | .09    | 2.700 |         | 10.500 |      | 25 | 56003  |       | .02    | 2.580 |         | 17.100 |       | 69 |
| 53032  | .05   | .14    | 2.580 | -18.481 | -6.517 | .240 | 25 | 55069  |       | .19    | 2.670 |         | 13.090 |       | 71 |
| 51027  |       | .36    | 2.600 |         | 9.150  |      | 25 | 55068  |       | 2.10   | 2.660 |         | 12.260 |       | 65 |
| 51036  |       | .37    | 2.700 |         | 8.600  |      | 25 | 55067  |       | 2.17   | 2.640 |         | 11.310 |       | 60 |
| 51002  |       | 1.12   | 2.700 |         | 10.500 |      | 25 | 55066  |       | 2.20   | 2.620 |         | 11.210 |       | 55 |
| 51026  |       | 1.98   | 2.620 |         | 7.730  |      | 25 | 55064  |       | 2.25   | 2.660 |         | 10.970 |       | 46 |
| 53035  | .03   | 2.28   | 2.610 | -11.538 | 9.190  | .192 | 25 | 55065  |       | 2.25   | 2.690 |         | 11.020 |       | 51 |
| 51001  |       | 2.37   | 2.700 |         | 9.700  |      | 25 | 55063  |       | 2.34   | 2.590 |         | 10.490 |       | 46 |
| 53019  | .02   | 2.55   | 2.725 | -2.031  | 8.451  | .178 | 25 | 55062  |       | 2.46   | 2.610 |         | 9.960  |       | 40 |
| 51024  |       | 4.52   | 2.600 |         | 6.450  |      | 25 | 55094  |       | 2.56   | 2.740 |         | 11.720 |       | 71 |
| 51029  |       | 7.10   | 2.700 |         | 6.300  |      | 25 | 55060  |       | 2.72   | 2.640 |         | 8.970  |       | 31 |
| 43035  |       | 7.90   | 2.530 |         | -2.797 | .182 | 25 | 55061  |       | 2.72   | 2.600 |         | 9.000  |       | 35 |
| 51025  |       | 10.30  | 2.600 |         | -2.900 |      | 25 | 55048  |       | 4.83   | 2.660 |         | 9.190  |       | 70 |
| 51022  |       | 12.91  | 2.600 |         | 4.760  |      | 25 | 55047  |       | 5.19   | 2.690 |         | 8.690  |       | 61 |
| 51023  |       | 16.16  | 2.600 |         | 3.700  |      | 25 | 55046  |       | 5.81   | 2.680 |         | 7.730  |       | 50 |
| 43040  |       | 17.90  | 2.630 |         | -2.503 | .152 | 25 | 55021  |       | 19.50  | 2.740 |         | 3.660  | .091  | 37 |
| 43043  |       | 34.80  | 2.650 |         | -1.555 | .094 | 25 | 55038  |       | 48.28  | 2.300 |         | 1.728  |       | 40 |
| 43029  |       | 40.30  | 2.330 |         | 1.588  | .099 | 25 |        |       |        |       |         |        |       |    |
| 20062  |       |        | 2.690 |         |        | .239 | 40 | 91069  | .51   |        | 2.363 | 22.715  |        | .198  | 20 |
| 20078  |       |        | 2.110 |         |        | .238 | 60 | 31068  | .68   |        | 2.120 | 19.118  |        |       | 20 |
| 20079  |       |        | 2.110 |         |        | .239 | 60 | 91081  | .91   |        | 2.430 | 24.317  |        | .181  | 20 |
| 20080  |       |        | 2.450 |         |        | .246 | 60 | 31067  | 1.31  |        | 2.120 | -14.542 |        |       | 20 |
| 55099  |       | .02    | 2.630 |         | 11.520 |      | 31 | 57185  | .25   |        | 2.570 | -35.560 |        | -.261 | 25 |
| 55095  |       | .02    | 2.630 |         | 12.640 |      | 37 | 57128  | .41   |        | 2.450 | 25.171  |        | .204  | 25 |
| 56000  |       | .02    | 2.620 |         | 13.760 |      | 40 | 57183  | .53   |        | 2.570 | 23.019  |        | .198  | 25 |
| 55096  |       | .02    | 2.620 |         | 12.990 |      | 45 | 57184  | .73   |        | 2.570 | 22.192  |        | .191  | 25 |
|        |       |        |       |         |        |      |    | 57129  | .93   |        | 2.460 | 20.968  |        | .179  | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 2.1 TO 2.75 M (4)

AQUEOUS HNO3 FROM 2.1 TO 2.75 M (5)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU   | D-H  | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU   | D-H   | T  |
|--------|-------|--------|-------|---------|--------|------|----|--------|-------|--------|-------|-------|--------|-------|----|
| 52011  | 1.11  |        | 2.565 | 20.315  |        | .181 | 25 |        |       |        |       |       |        |       |    |
| 11026  | 1.45  |        | 2.130 | 14.918  |        | .192 | 25 | 70033  | 7.62  |        | 2.110 | 6.750 |        | .127  | 40 |
| 53052  | 1.05  | .11    | 2.675 | 22.333  | 8.155  | .183 | 25 | 83038  | 7.65  |        | 2.160 | 6.706 |        | .131  | 45 |
| 53050  | .31   | .12    | 2.585 | -15.738 | 7.884  | .222 | 25 | 83062  | 9.60  |        | 2.130 | 5.365 |        | .135  | 60 |
| 31066  | 2.44  |        | 2.120 | 12.480  |        |      | 20 | 31063  | 20.50 |        | 2.160 | 4.098 |        |       | 20 |
| 91093  | 4.42  |        | 2.580 | 12.816  |        | .121 | 20 | 19007  | 17.40 |        | 2.667 | 5.400 | -1.100 |       | 25 |
| 31065  | 4.60  |        | 2.120 | 10.087  |        |      | 20 | 19008  | 22.38 |        | 2.703 | 4.500 | -1.000 |       | 25 |
| 32017  | 5.15  |        | 2.240 | 9.748   |        |      | 20 |        |       |        |       |       |        |       |    |
| 91092  | 5.32  |        | 2.189 | 10.505  |        | .113 | 20 | 91105  | 25.68 |        | 2.506 | 3.626 |        | -.040 | 20 |
| 31064  | 7.00  |        | 2.120 | 8.129   |        |      | 20 | 31097  | 30.11 |        | 2.290 | 3.143 |        |       | 20 |
| 57150  | 2.16  |        | 2.350 | 14.907  |        | .157 | 25 | 31062  | 42.21 |        | 2.140 | 2.320 |        |       | 20 |
| 82019  | 3.40  |        | 2.700 | 11.912  |        | .154 | 25 | 32010  | 49.01 |        | 2.200 | 2.100 |        |       | 20 |
| 52008  | 3.73  |        | 2.205 | 12.225  |        | .139 | 25 | 11030  | 27.38 |        | 2.150 | 3.304 |        | .053  | 25 |
| 11027  | 4.76  |        | 2.140 | 10.550  |        | .117 | 25 | 51073  | 29.76 |        | 2.496 | 3.200 |        |       | 25 |
| 57189  | 7.15  |        | 2.740 | 9.566   |        | .099 | 25 | 57148  | 44.41 |        | 2.150 | 2.178 |        | .042  | 25 |
| 19001  | 2.19  |        | 2.305 | 16.700  | -4.000 |      | 25 | 19009  | 29.86 |        | 2.741 | 3.600 | -.790  |       | 25 |
| 19012  | 2.69  |        | 2.600 |         | 4.950  |      | 25 | 80083  | 30.01 | .34    | 2.130 | 3.000 | 1.115  |       | 25 |
| 19002  | 3.52  |        | 2.386 | 13.700  | 3.700  |      | 25 | 80090  | 25.20 | .40    | 2.260 | 3.349 | 1.083  | .075  | 25 |
| 19003  | 4.93  |        | 2.448 | 12.100  | -2.300 |      | 25 |        |       |        |       |       |        |       |    |
| 19004  | 7.02  |        | 2.513 | -10.200 | -1.300 |      | 25 | 83039  | 32.01 |        | 2.270 | 2.650 |        | .081  | 45 |
| 53054  | 7.26  | .20    | 2.720 | 8.292   | 3.687  | .114 | 25 | 83063  | 36.31 |        | 2.240 | 2.300 |        | .084  | 60 |
| 32024  | 12.00 |        | 2.340 | 6.158   |        |      | 20 | 31061  | 65.51 |        | 2.220 | 1.594 |        |       | 20 |
| 57151  | 10.50 |        | 2.160 | 6.686   |        | .088 | 25 | 91118  | 73.41 |        | 2.627 | 1.444 |        | .029  | 20 |
| 14007  | 10.71 |        | 2.150 | 6.889   |        | .098 | 25 | 31060  | 89.92 |        | 2.250 | 1.205 |        |       | 20 |
| 11028  | 12.14 |        | 2.140 | 6.294   |        | .079 | 25 | 52009  | 59.01 |        | 2.460 | 1.847 |        | .035  | 25 |
| 11029  | 12.62 |        | 2.140 | 5.792   |        | .086 | 25 | 57149  | 82.11 |        | 2.280 | 1.326 |        | .026  | 25 |
| 19005  | 10.19 |        | 2.580 | 7.900   | -1.600 |      | 25 | 57153  | 86.81 |        | 2.590 | 1.272 |        | -.015 | 25 |
| 19006  | 14.31 |        | 2.637 | 6.400   | -1.300 |      | 25 | 11031  | 94.76 |        | 2.200 | 1.204 |        | .034  | 25 |
| 53059  | 11.30 | 2.66   | 2.715 | 6.973   | 2.729  | .070 | 25 |        |       |        |       |       |        |       |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 2.1 TO 2.75 M (6)

AQUEOUS HNO3 FROM 2.1 TO 2.75 M (7)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H   | T  |
|--------|--------|--------|-------|-------|-------|-------|----|--------|--------|--------|-------|------|------|-------|----|
| 83040  | 77.91  |        | 2.340 | 1.207 |       | -.059 | 45 | 13066  | 159.51 |        | 2.320 | .657 |      | -.026 | 70 |
| 83064  | 80.81  |        | 2.290 | 1.170 |       | .062  | 60 | 13063  | 223.80 |        | 2.120 | .468 |      | -.019 | 70 |
| 13068  | 88.09  |        | 2.360 | 1.027 |       | .047  | 70 | 13064  | 238.08 |        | 2.190 | .440 |      | -.023 | 70 |
| 56050  | 79.16  | 9.27   | 2.480 | .964  | 1.815 |       | 70 |        |        |        |       |      |      |       |    |
| 56049  | 75.23  | 10.28  | 2.500 | 1.064 | 1.520 |       | 59 |        |        |        |       |      |      |       |    |
| 56048  | 70.47  | 11.88  | 2.510 | 1.200 | 1.240 |       | 49 |        |        |        |       |      |      |       |    |
| 56047  | 66.66  | 13.67  | 2.530 | 1.325 | .960  |       | 39 |        |        |        |       |      |      |       |    |
| 56046  | 63.09  | 15.32  | 2.540 | 1.470 | .762  |       | 30 |        |        |        |       |      |      |       |    |
| 31059  | 113.72 |        | 2.250 | .986  |       |       | 20 |        |        |        |       |      |      |       |    |
| 91130  | 125.92 |        | 2.628 | .926  |       | .020  | 20 |        |        |        |       |      |      |       |    |
| 31058  | 138.02 |        | 2.250 | .828  |       |       | 20 |        |        |        |       |      |      |       |    |
| 91142  | 161.37 |        | 2.322 | .719  |       | -.024 | 20 |        |        |        |       |      |      |       |    |
| 31057  | 165.43 |        | 2.220 | .698  |       |       | 20 |        |        |        |       |      |      |       |    |
| 91141  | 168.44 |        | 2.233 | .717  |       | -.023 | 20 |        |        |        |       |      |      |       |    |
| 31056  | 188.63 |        | 2.230 | .621  |       |       | 20 |        |        |        |       |      |      |       |    |
| 31055  | 214.84 |        | 2.230 | .551  |       |       | 20 |        |        |        |       |      |      |       |    |
| 91150  | 228.64 |        | 2.215 | .525  |       | .016  | 20 |        |        |        |       |      |      |       |    |
| 31054  | 238.64 |        | 2.200 | .499  |       |       | 20 |        |        |        |       |      |      |       |    |
| 31053  | 263.14 |        | 2.240 | .455  |       |       | 20 |        |        |        |       |      |      |       |    |
| 52010  | 101.52 |        | 2.465 | 1.118 |       | .025  | 25 |        |        |        |       |      |      |       |    |
| 14011  | 214.24 |        | 2.110 | .556  |       | -.028 | 25 |        |        |        |       |      |      |       |    |
| 57206  | 242.09 |        | 2.190 | .485  |       | .015  | 25 |        |        |        |       |      |      |       |    |
| 91156  | 171.82 |        | 2.284 | .661  |       | .018  | 30 |        |        |        |       |      |      |       |    |
| 80081  | 124.02 | 1.13   | 2.180 | .871  | .324  |       | 25 |        |        |        |       |      |      |       |    |
| 83041  | 130.02 |        | 2.350 | .812  |       | .043  | 45 |        |        |        |       |      |      |       |    |
| 83042  | 184.53 |        | 2.390 | .602  |       | -.039 | 45 |        |        |        |       |      |      |       |    |
| 83065  | 134.52 |        | 2.300 | .803  |       | .050  | 60 |        |        |        |       |      |      |       |    |
| 83066  | 186.03 |        | 2.330 | .575  |       | -.044 | 60 |        |        |        |       |      |      |       |    |
| 57243  | 242.09 |        | 2.710 | .441  |       | .030  | 60 |        |        |        |       |      |      |       |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 2.75 TO 3.05 M (1)

AQUEOUS HNO3 FROM 2.75 TO 3.05 M (2)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU    | D-H  | T        | SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU   | D-H  | T  |
|--------|-------|--------|-------|---------|---------|------|----------|--------|-------|--------|-------|---------|--------|------|----|
| 31005  |       |        | 2.990 |         |         |      | .217 20  | 43031  |       | .44    | 2.940 |         | -3.750 | .218 | 25 |
| 91010  |       |        | 2.961 | -82.633 |         |      | .208 20  | 40067  |       | .50    | 2.980 |         | 12.400 | .185 | 26 |
| 91022  |       |        | 2.981 | -80.504 |         |      | .212 20  | 43032  |       | .85    | 3.030 |         | -3.756 | .215 | 25 |
| 91034  | .01   |        | 2.967 | 32.480  |         |      | .206 20  | 40068  |       | .90    | 2.950 |         | 13.333 | .186 | 26 |
| 91058  | .11   |        | 3.032 | -41.399 |         |      | .202 20  | 33076  | .11   | 1.00   | 3.030 | 29.000  | 14.500 |      | 25 |
| 20043  |       |        | 3.020 |         |         |      | -.236 22 | 33070  |       | 1.06   | 3.000 |         | 11.900 |      | 25 |
| 53064  |       |        | 2.940 |         |         |      | .220 25  | 33058  |       | 1.10   | 2.940 |         | 13.000 |      | 25 |
| 35040  |       |        | 3.000 | 23.067  |         |      | 25       | 33017  |       | 1.40   | 3.000 |         | 13.571 |      | 25 |
| 35041  |       |        | 3.000 | 24.571  |         |      | 25       | 51035  |       | 1.82   | 2.760 |         | 8.410  |      | 25 |
| 30004  |       |        | 3.000 |         | -11.000 |      | 22       | 33057  |       | 1.87   | 2.930 |         | 12.600 |      | 25 |
| 33055  |       |        | 3.000 |         | 16.000  |      | 23       | 33040  |       | 2.00   | 3.000 |         | 11.150 |      | 25 |
| 11056  |       |        | 3.000 |         | 16.000  |      | 25       | 40069  |       | 2.29   | 3.010 |         | 12.576 | .159 | 26 |
| 10047  |       |        | 3.010 |         | 15.800  | .216 | 30       | 30065  |       | 2.50   | 3.000 |         | 10.080 |      | 25 |
| 83015  |       |        | 3.000 |         | 14.110  |      | 30       | 40070  |       | 2.99   | 3.020 |         | 9.030  | .156 | 26 |
| 83014  |       |        | 3.000 |         | 12.370  |      | 20       | 53062  |       | 3.26   | 2.820 |         | 8.788  | .174 | 25 |
| 83013  |       |        | 3.000 |         | 11.050  |      | 10       | 40071  |       | 4.20   | 3.020 |         | 8.333  | .142 | 26 |
| 33051  |       |        | 2.940 |         | 16.600  |      | 25       | 55054  |       | 4.68   | 2.850 |         | 8.100  |      | 29 |
| 68007  |       | .01    | 2.970 |         | -9.200  |      | 23       | 30066  |       | 5.00   | 3.000 |         | 7.440  |      | 25 |
| 40065  |       | .01    | 2.970 |         | 12.727  | .199 | 26       | 33041  |       | 5.00   | 3.000 |         | 7.450  |      | 25 |
| 33061  |       | .02    | 3.000 |         | 16.500  |      | 25       | 33081  | .14   | 5.01   | 3.050 | -13.200 | 9.200  |      | 25 |
| 33067  |       | .02    | 3.000 |         | 15.500  |      | 25       | 51034  |       | 5.26   | 2.850 |         | 6.000  |      | 25 |
| 83020  |       | .07    | 3.000 |         | 14.190  |      | 30       | 51033  |       | 6.45   | 2.850 |         | -4.420 |      | 25 |
| 53033  | .03   | .07    | 3.040 | 32.339  | 13.333  | .230 | 25       | 33018  |       | 6.75   | 3.000 |         | 6.444  |      | 25 |
| 83019  |       | .08    | 3.000 |         | 12.200  |      | 20       | 33086  | .09   | 7.20   | 2.990 | 19.000  | 7.500  |      | 25 |
| 43030  |       | .09    | 2.930 |         | -4.267  | .218 | 25       | 30067  |       | 10.00  | 3.000 |         | 5.150  |      | 25 |
| 33069  |       | .09    | 3.000 |         | 14.200  |      | 25       | 33042  |       | 10.00  | 3.000 |         | 5.200  |      | 25 |
| 33060  |       | .09    | 3.000 |         | 16.100  |      | 25       | 43037  |       | 10.00  | 2.800 |         | -3.280 | .143 | 25 |
| 33071  | .11   | .10    | 2.940 | 31.000  | 15.000  |      | 25       | 33019  |       | 15.00  | 3.000 |         | 4.167  |      | 25 |
| 40066  |       | .12    | 2.990 |         | -10.887 | .197 | 26       | 33091  | .09   | 19.62  | 3.000 | 11.500  | 4.000  |      | 25 |
| 33059  |       | .31    | 2.910 |         | 15.200  |      | 25       | 30068  |       | 20.00  | 3.000 |         | 3.425  |      | 25 |
| 33068  |       | .33    | 3.000 |         | 13.900  |      | 25       | 33043  |       | 20.00  | 3.000 |         | 3.500  |      | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 2.75 TO 3.05 M (3)

AQUEOUS HNO3 FROM 2.75 TO 3.05 M (4)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U | D-PU   | D-H  | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU   | D-H  | T  |
|--------|-------|--------|-------|-----|--------|------|----|--------|-------|--------|-------|---------|--------|------|----|
| 43042  |       | 22.80  | 2.820 |     | -2.412 | .085 | 25 | 55051  |       | 3.92   | 2.810 |         | 9.670  |      | 51 |
| 33020  |       | 48.50  | 3.000 |     | 1.994  |      | 25 | 55057  |       | 4.06   | 2.790 |         | 9.190  |      | 46 |
| 33044  |       | 50.00  | 3.000 |     | 1.950  |      | 25 | 55050  |       | 4.42   | 2.830 |         | 8.460  |      | 40 |
| 20063  |       |        | 2.950 |     |        | .235 | 40 | 55056  |       | 4.42   | 2.810 |         | 8.520  |      | 40 |
| 83081  |       |        | 2.980 |     |        | .228 | 45 | 55055  |       | 4.49   | 2.800 |         | 8.420  |      | 35 |
| 83085  |       |        | 2.920 |     |        | .218 | 60 | 55049  |       | 4.68   | 2.790 |         | 8.530  |      | 31 |
| 83018  |       |        | 3.000 |     | 18.530 |      | 60 | 55083  |       | 5.09   | 2.830 |         | 9.650  |      | 71 |
| 83017  |       |        | 3.000 |     | 17.320 |      | 50 | 55082  |       | 5.19   | 2.820 |         | 8.520  |      | 66 |
| 83016  |       |        | 3.000 |     | 15.280 |      | 40 | 55072  |       | 5.28   | 2.890 |         | 8.285  |      | 45 |
| 83021  | .06   | 3.000  |       |     | 15.860 |      | 40 | 55081  |       | 5.35   | 2.860 |         | 8.580  |      | 60 |
| 83022  | .06   | 3.000  |       |     | 17.410 |      | 50 | 55073  |       | 5.38   | 2.860 |         | 8.350  |      | 56 |
| 55045  | 2.41  | 2.890  |       |     | 12.400 |      | 70 | 55078  |       | 5.43   | 2.810 |         | 7.790  |      | 50 |
| 55044  | 2.55  | 2.870  |       |     | 11.920 |      | 60 | 55080  |       | 5.57   | 2.850 |         | 7.840  |      | 55 |
| 55093  | 2.56  | 2.780  |       |     | 11.790 |      | 66 | 55077  |       | 5.71   | 2.900 |         | 7.830  |      | 45 |
| 55092  | 2.58  | 2.760  |       |     | 11.780 |      | 60 | 55079  |       | 5.71   | 2.860 |         | 7.860  |      | 50 |
| 55088  | 2.58  | 2.780  |       |     | 11.790 |      | 65 | 55076  |       | 5.74   | 2.860 |         | 7.780  |      | 42 |
| 55091  | 2.61  | 2.770  |       |     | 11.720 |      | 56 | 55071  |       | 5.90   | 2.860 |         | 7.870  |      | 40 |
| 55043  | 2.72  | 2.870  |       |     | 11.340 |      | 50 | 55075  |       | 6.07   | 2.850 |         | 7.140  |      | 37 |
| 55087  | 2.72  | 2.820  |       |     | 11.010 |      | 55 | 55070  |       | 6.21   | 2.860 |         | 7.140  |      | 35 |
| 55090  | 2.80  | 2.790  |       |     | 10.930 |      | 52 | 55074  |       | 6.33   | 2.870 |         | 6.910  |      | 30 |
| 55086  | 2.94  | 2.810  |       |     | 10.340 |      | 46 | 55028  |       | 20.55  | 2.880 |         | 3.010  | .073 | 34 |
| 55089  | 2.96  | 2.820  |       |     | 10.530 |      | 47 | 55031  |       | 31.55  | 3.050 |         | 2.690  |      | 37 |
| 55042  | 3.08  | 2.880  |       |     | 9.810  |      | 40 | 31077  | .42   |        | 2.940 | -63.462 |        |      | 20 |
| 55085  | 3.11  | 2.800  |       |     | 9.920  |      | 40 | 91070  | .42   |        | 2.814 | 27.693  |        | .183 | 20 |
| 55084  | 3.20  | 2.830  |       |     | 9.610  |      | 37 | 91082  | .82   |        | 2.831 | 26.881  |        | .178 | 20 |
| 55041  | 3.27  | 2.940  |       |     | 9.370  |      | 31 | 31076  | 1.72  |        | 2.980 | 21.105  |        |      | 20 |
| 55053  | 3.49  | 2.830  |       |     | 10.620 |      | 70 | 40072  | .34   |        | 3.050 | -39.706 |        | .233 | 26 |
| 55059  | 3.58  | 2.780  |       |     | 10.440 |      | 64 | 81048  | .36   |        | 2.920 |         | 12.546 | .236 | 25 |
| 55052  | 3.75  | 2.780  |       |     | 9.980  |      | 59 | 81047  | .73   | .01    | 2.940 |         | 10.551 | .197 | 25 |
| 55058  | 3.82  | 2.810  |       |     | 9.760  |      | 55 | 81046  | 1.40  | .02    | 2.930 |         | 8.873  | .198 | 25 |



DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 2.75 TO 3.05 M (5)

AQUEOUS HNO3 FROM 2.75 TO 3.05 M (6)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU   | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU   | D-H   | T  |
|--------|-------|--------|-------|---------|--------|-------|----|--------|-------|--------|-------|-------|--------|-------|----|
| 37007  | 1.19  | .02    | 3.000 |         | 8.500  |       | 22 | 34061  | 9.61  |        | 3.000 | 7.419 |        |       | 25 |
| 81060  | .30   | .03    | 2.940 | 24.167  | 12.790 | .207  | 25 | 82020  | 10.00 |        | 2.870 | 7.150 |        | .097  | 25 |
| 33072  | 1.04  | .09    | 2.940 | 25.000  | 11.000 |       | 25 | 40083  | 14.90 |        | 2.950 | 5.973 |        | .078  | 26 |
| 53016  | .23   | .09    | 3.045 | -5.378  | 9.348  | .217  | 25 | 19013  | 12.59 |        | 3.000 |       | -2.050 |       | 25 |
| 53023  | .23   | .10    | 3.045 | -2.467  | 11.168 | .217  | 25 | 37009  | 8.33  | .02    | 3.000 |       | 3.100  |       | 22 |
| 40073  | .38   | .12    | 3.010 | 31.579  | 9.500  | .183  | 26 | 37010  | 12.62 | .02    | 3.000 |       | 2.400  |       | 22 |
| 40074  | .58   | .51    | 2.990 | 24.138  | 9.922  | .181  | 26 | 33073  | 10.53 | .12    | 2.950 | 7.600 | 3.300  |       | 25 |
| 33077  | .90   | .83    | 3.040 | 22.400  | 11.800 |       | 25 | 40084  | 14.20 | .13    | 3.040 | 6.127 | 2.078  | .079  | 26 |
| 40075  | .44   | 3.13   | 3.030 | 21.818  | 7.412  | .158  | 26 | 53056  | 9.92  | .20    | 2.965 | 8.276 | 4.022  | .083  | 25 |
| 33082  | 1.61  | 6.42   | 2.970 | 13.700  | 5.700  |       | 25 | 53057  | 10.10 | .46    | 2.920 | 8.020 | 3.391  | .079  | 25 |
| 33087  | 1.33  | 9.26   | 2.880 | 11.300  | 5.400  |       | 25 | 40085  | 13.40 | .53    | 3.010 | 6.343 | 2.129  | .083  | 26 |
| 33092  | 1.00  | 14.35  | 3.000 | 9.300   | 4.600  |       | 25 | 53058  | 11.00 | 1.26   | 2.830 | 7.391 | 3.230  | .078  | 25 |
|        |       |        |       |         |        |       |    | 33078  | 14.17 | 1.46   | 3.000 | 6.000 | 2.400  |       | 25 |
| 91094  | 3.55  |        | 2.944 | 16.032  |        | .110  | 20 | 33083  | 11.87 | 6.07   | 2.970 | 5.900 | 2.700  |       | 25 |
| 32018  | 3.85  |        | 2.900 | 13.013  |        |       | 20 | 33088  | 14.18 | 12.73  | 2.900 | 4.500 | 2.200  |       | 25 |
| 31075  | 4.25  |        | 3.050 | 13.012  |        |       | 20 | 33093  | 12.49 | 17.59  | 2.850 | 4.100 | 2.200  |       | 25 |
| 34060  | 3.96  |        | 3.000 | 12.922  |        |       | 25 |        |       |        |       |       |        |       |    |
| 51071  | 7.14  |        | 3.000 | 10.000  |        |       | 25 | 34090  | 11.00 |        | 3.000 | 6.530 |        |       | 35 |
| 40078  | 3.31  |        | 2.950 | 14.804  |        | .136  | 26 | 35018  | 13.12 |        | 3.000 | 5.164 |        |       | 50 |
| 37008  | 2.14  | .02    | 3.000 |         | 6.600  |       | 22 | 13042  | 10.00 |        | 3.020 | 5.020 |        | .133  | 70 |
| 40079  | 3.62  | .11    | 2.980 | 14.890  | 5.310  | .128  | 26 |        |       |        |       |       |        |       |    |
| 53053  | 3.90  | .16    | 2.770 | 10.872  | 6.280  | .144  | 25 | 31092  | 21.80 |        | 2.950 | 4.271 |        |       | 20 |
| 53055  | 5.09  | .24    | 2.960 | -15.506 | 3.698  | -.084 | 25 | 91106  | 24.83 |        | 2.868 | 3.747 |        | -.041 | 20 |
| 40080  | 4.70  | .50    | 2.970 | 11.702  | 5.160  | .114  | 26 | 34062  | 19.70 |        | 3.000 | 4.406 |        |       | 25 |
| 40081  | 4.60  | 3.09   | 2.970 | 10.870  | 4.595  | .101  | 26 | 51072  | 21.67 |        | 2.998 | 4.400 |        |       | 25 |
| 40082  | 5.40  | 9.50   | 3.040 | 7.963   | 3.453  | .079  | 26 | 52012  | 23.10 |        | 2.830 | 4.171 |        | .055  | 25 |
|        |       |        |       |         |        |       |    | 33075  | 23.42 | .10    | 2.970 | -.790 | -.400  |       | 25 |
| 34089  | 2.67  |        | 3.000 | 14.340  |        |       | 35 | 40086  | 15.60 | 3.24   | 3.020 | 4.936 | 2.244  | .070  | 26 |
| 35017  | 3.21  |        | 3.000 | 11.450  |        |       | 50 | 40087  | 16.90 | 10.10  | 2.990 | 4.201 | 2.000  | .064  | 26 |
| 13043  | 2.86  |        | 3.000 | 9.170   |        | .173  | 70 | 40088  | 15.60 | 20.40  | 3.000 | 3.635 | 1.848  | .053  | 26 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 2.75 TO 3.05 M (7)

AQUEOUS HNO3 FROM 2.75 TO 3.05 M (8)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU   | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  |
|--------|-------|--------|-------|--------|--------|-------|----|--------|--------|--------|-------|-------|-------|-------|----|
| 34091  | 21.90 |        | 3.000 | 3.910  |        |       | 35 | 52014  | 57.51  |        | 2.945 | 1.904 |       | .033  | 25 |
| 13041  | 21.67 |        | 2.990 | 3.220  |        | .097  | 70 | 82023  | 62.01  |        | 3.030 | 1.653 |       | .045  | 25 |
|        |       |        |       |        |        |       |    | 57235  | 72.36  |        | 2.980 | 1.431 |       | .029  | 25 |
| 31098  | 30.11 |        | 2.950 | 3.372  |        |       | 20 | 34064  | 73.21  |        | 3.000 | 1.469 |       |       | 25 |
| 32005  | 39.31 |        | 2.880 | 2.664  |        |       | 20 | 52015  | 77.61  |        | 2.940 | 1.443 |       | .028  | 25 |
| 32011  | 49.01 |        | 3.050 | 2.173  |        |       | 20 | 34065  | 96.92  |        | 3.000 | 1.141 |       |       | 25 |
| 82021  | 29.20 |        | 2.980 | 3.253  |        | .061  | 25 | 52016  | 99.82  |        | 2.995 | 1.142 |       | .024  | 25 |
| 52013  | 37.86 |        | 2.865 | 2.748  |        | .042  | 25 | 37025  | 81.19  | .02    | 3.000 |       | .620  |       | 22 |
| 82022  | 40.51 |        | 3.010 | 2.444  |        | .053  | 25 | 40098  | 80.01  | .09    | 3.000 | 1.375 | .624  | .040  | 26 |
| 34063  | 46.31 |        | 3.000 | 2.197  |        |       | 25 | 33074  | 100.02 | .10    | 2.970 | 1.120 | .540  |       | 25 |
| 40089  | 40.61 |        | 3.010 | 2.586  |        | .047  | 26 | 40099  | 78.01  | .56    | 2.970 | 1.385 | .571  | -.051 | 26 |
| 19010  | 49.23 |        | 2.798 | -2.300 | -.570  |       | 25 | 33079  | 94.93  | 1.00   | 2.980 | 1.180 | .500  |       | 25 |
| 37011  | 29.28 | .02    | 3.000 |        | 1.500  |       | 22 | 41000  | 85.01  | 3.41   | 2.980 | 1.235 | .616  | -.044 | 26 |
| 40090  | 42.11 | .10    | 3.000 | 2.352  | 1.069  | -.060 | 26 | 33084  | 95.67  | 5.68   | 3.050 | 1.150 | .500  |       | 25 |
| 40091  | 36.51 | .48    | 2.950 | 2.630  | 1.104  | .061  | 26 | 33089  | 99.65  | 9.20   | 2.990 | 1.080 | .500  |       | 25 |
| 30069  | 40.01 | 2.50   | 3.000 |        | -.700  |       | 25 | 41001  | 82.01  | 11.30  | 3.000 | 1.256 | .584  | .037  | 26 |
| 40092  | 42.01 | 3.13   | 3.000 | 2.357  | 1.077  | .053  | 26 | 33094  | 95.39  | 17.32  | 2.920 | 1.080 | .560  |       | 25 |
| 30070  | 40.01 | 5.00   | 3.000 |        | .850   |       | 25 | 41002  | 81.01  | 20.30  | 2.950 | 1.173 | .581  | .034  | 26 |
| 30071  | 40.01 | 10.00  | 3.000 |        | 1.125  |       | 25 | 41003  | 82.01  | 42.50  | 2.970 | 1.049 | .548  | .037  | 26 |
| 40093  | 35.01 | 10.60  | 3.020 | 2.686  | .896   | .040  | 26 | 41005  | 81.01  | 99.40  | 2.930 | .630  | .590  | .024  | 26 |
| 30072  | 40.01 | 20.00  | 3.000 |        | -1.550 |       | 25 |        |        |        |       |       |       |       |    |
| 40094  | 48.01 | 21.00  | 3.020 | 1.854  | .881   | .046  | 26 | 34093  | 73.33  |        | 3.000 | 1.420 |       |       | 35 |
| 40095  | 47.01 | 41.00  | 2.990 | 1.553  | .807   | .037  | 26 | 34094  | 97.61  |        | 3.000 | 1.113 |       |       | 35 |
|        |       |        |       |        |        |       |    | 70041  | 86.90  |        | 3.030 | 1.277 |       | .044  | 40 |
| 34092  | 42.85 |        | 3.000 | 2.256  |        |       | 35 | 35021  | 76.52  |        | 3.000 | 1.335 |       |       | 50 |
| 35019  | 25.81 |        | 3.000 | 3.200  |        |       | 50 | 13038  | 57.14  |        | 2.860 | 1.683 |       | .059  | 70 |
| 35020  | 50.00 |        | 3.000 | 1.962  |        |       | 50 | 13037  | 81.19  |        | 2.830 | 1.246 |       | .056  | 70 |
| 13040  | 31.43 |        | 2.940 | 2.460  |        | .082  | 70 | 13036  | 81.90  |        | 3.000 | 1.189 |       | .053  | 70 |
| 13039  | 33.81 |        | 3.000 | 2.320  |        | .077  | 70 | 56095  | 80.47  | 4.13   | 3.000 | 1.070 | 2.050 |       | 69 |
|        |       |        |       |        |        |       |    | 56094  | 77.38  | 4.59   | 3.015 | 1.154 | 1.770 |       | 62 |
| 91119  | 73.01 |        | 2.940 | 1.534  |        | .037  | 20 | 56093  | 72.38  | 5.47   | 3.030 | 1.284 | 1.396 |       | 49 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 2.75 TO 3.05 M (9)

AQUEOUS HNO3 FROM 2.75 TO 3.05 M (10)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  |
|--------|--------|--------|-------|-------|-------|-------|----|--------|--------|--------|-------|-------|------|-------|----|
| 56065  | 86.18  | 6.26   | 2.820 | 1.020 | 1.950 |       | 70 | 41020  | 307.05 | 42.70  | 2.860 | .342  | .283 | -.031 | 26 |
| 56092  | 68.33  | 6.43   | 3.050 | 1.430 | 1.090 |       | 39 | 41013  | 190.03 | 69.90  | 3.020 | .516  | .288 | .026  | 26 |
| 56064  | 79.99  | 7.12   | 2.830 | 1.125 | 1.670 |       | 60 | 41021  | 296.05 | 76.00  | 2.970 | .318  | .303 | .024  | 26 |
| 56091  | 66.42  | 7.31   | 3.050 | 1.510 | .884  |       | 31 | 41022  | 284.05 | 96.00  | 2.940 | .313  | .318 | .020  | 26 |
| 56063  | 75.00  | 8.15   | 2.840 | 1.250 | 1.410 |       | 50 |        |        |        |       |       |      |       |    |
| 56062  | 69.28  | 9.54   | 2.860 | 1.390 | 1.130 |       | 40 | 34095  | 150.35 |        | 3.000 | .741  |      |       | 35 |
| 56061  | 64.04  | 11.28  | 2.880 | 1.570 | .890  |       | 31 | 70042  | 112.61 |        | 2.913 | 1.011 |      | .037  | 40 |
|        |        |        |       |       |       |       |    | 57260  | 267.79 |        | 3.030 | .442  |      | .018  | 40 |
| 31070  | 148.83 |        | 3.020 | .788  |       |       | 20 | 35022  | 102.37 |        | 3.000 | 1.036 |      |       | 50 |
| 91143  | 162.49 |        | 3.025 | .736  |       | .025  | 20 | 35023  | 149.28 |        | 3.000 | .745  |      |       | 50 |
| 31069  | 193.43 |        | 3.040 | .617  |       |       | 20 | 57251  | 140.21 |        | 2.960 | .728  |      | .038  | 60 |
| 82024  | 101.22 |        | 3.050 | 1.059 |       | -.037 | 25 | 13035  | 221.41 |        | 3.030 | .492  |      | .043  | 70 |
| 52017  | 121.52 |        | 2.995 | .947  |       | .023  | 25 |        |        |        |       |       |      |       |    |
| 34066  | 147.62 |        | 3.000 | .764  |       |       | 25 |        |        |        |       |       |      |       |    |
| 57217  | 184.24 |        | 2.900 | .615  |       | .017  | 25 |        |        |        |       |       |      |       |    |
| 41006  | 174.03 |        | 2.950 | .667  |       | -.031 | 26 |        |        |        |       |       |      |       |    |
| 41015  | 320.05 |        | 2.950 | .375  |       | -.024 | 26 |        |        |        |       |       |      |       |    |
| 37012  | 113.56 | .02    | 3.000 |       | .380  |       | 22 |        |        |        |       |       |      |       |    |
| 41016  | 294.05 | .08    | 2.940 | .401  | .308  | -.034 | 26 |        |        |        |       |       |      |       |    |
| 41007  | 148.02 | .11    | 3.000 | .743  | .357  | -.033 | 26 |        |        |        |       |       |      |       |    |
| 41081  | 290.05 | .52    | 2.890 | .410  | .283  | -.031 | 26 |        |        |        |       |       |      |       |    |
| 41008  | 174.03 | .60    | 3.040 | .644  | .392  | -.030 | 26 |        |        |        |       |       |      |       |    |
| 33080  | 147.46 | 1.00   | 2.960 | .780  | .380  |       | 25 |        |        |        |       |       |      |       |    |
| 41017  | 297.05 | 3.11   | 2.800 | .394  | .298  | -.025 | 26 |        |        |        |       |       |      |       |    |
| 33085  | 142.00 | 5.38   | 3.050 | .810  | .370  |       | 25 |        |        |        |       |       |      |       |    |
| 33090  | 152.66 | 9.47   | 3.010 | .760  | .380  |       | 25 |        |        |        |       |       |      |       |    |
| 41018  | 304.05 | 10.70  | 2.930 | .375  | .280  | .024  | 26 |        |        |        |       |       |      |       |    |
| 41010  | 161.03 | 10.90  | 3.000 | .665  | .391  | -.037 | 26 |        |        |        |       |       |      |       |    |
| 33095  | 143.45 | 17.21  | 2.940 | .760  | .430  |       | 25 |        |        |        |       |       |      |       |    |
| 41011  | 147.02 | 19.50  | 2.950 | .707  | .405  | .027  | 26 |        |        |        |       |       |      |       |    |
| 41019  | 304.05 | 21.20  | 2.910 | .355  | .281  | -.041 | 26 |        |        |        |       |       |      |       |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 3.05 TO 3.8 M (1)

AQUEOUS HNO3 FROM 3.05 TO 3.8 M (2)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U      | D-PU    | D-H  | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU   | D-H   | T  |
|--------|-------|--------|-------|----------|---------|------|----|--------|-------|--------|-------|---------|--------|-------|----|
| 13084  |       |        | 3.100 |          | 11.000  |      | 0  | 55003  |       | 6.41   | 3.190 |         | 6.866  | -.103 | 25 |
| 13085  |       |        | 3.800 |          | 15.500  |      | 0  | 55012  |       | 8.13   | 3.240 |         | 6.260  | -.099 | 28 |
| 20007  |       |        | 3.450 |          |         | .209 | 20 | 43036  |       | 9.10   | 3.360 |         | -3.516 | .167  | 25 |
| 20008  |       |        | 3.690 |          |         | .207 | 20 | 43038  |       | 10.20  | 3.080 |         | -2.710 | .162  | 25 |
| 91011  |       |        | 3.455 | -62.463  |         | .202 | 20 | 43039  |       | 14.20  | 3.100 |         | -2.606 | .145  | 25 |
| 91023  |       |        | 3.405 | -117.465 |         | .201 | 20 | 51032  |       | 16.97  | 3.060 |         | 3.640  |       | 25 |
| 91035  | .01   |        | 3.401 | 41.270   |         | .196 | 20 | 51031  |       | 19.36  | 3.060 |         | 2.600  |       | 25 |
| 91047  | .02   |        | 3.491 | 39.619   |         | .203 | 20 | 43041  |       | 21.50  | 3.060 |         | -2.186 | .118  | 25 |
| 91046  | .03   |        | 3.066 | 35.203   |         | .205 | 20 |        |       |        |       |         |        |       |    |
| 91059  | .09   |        | 3.461 | -55.783  |         | .193 | 20 | 20064  |       |        | 3.750 |         |        | .221  | 40 |
| 20044  |       |        | 3.500 |          |         | .223 | 22 | 20081  |       |        | 3.290 |         |        | .231  | 60 |
| 30030  |       |        | 3.500 |          |         | .197 | 23 | 20082  |       |        | 3.720 |         |        | .225  | 60 |
| 14004  |       |        | 3.070 |          |         | .231 | 25 | 55017  |       | 10.78  | 3.490 |         | 5.790  | .118  | 31 |
| 11014  |       |        | 3.310 |          |         | .200 | 25 | 55029  |       | 19.84  | 3.510 |         | 3.820  |       | 34 |
| 12013  |       |        | 3.350 |          |         | .211 | 25 | 55033  |       | 36.09  | 3.540 |         | 2.384  |       | 37 |
| 52053  |       |        | 3.615 |          |         | .210 | 25 | 55036  |       | 62.38  | 3.480 |         | 1.521  |       | 40 |
| 11003  | .01   |        | 3.370 | 30.100   |         |      | 25 |        |       |        |       |         |        |       |    |
| 57178  | .02   |        | 3.380 | 28.125   |         | .211 | 25 | 91071  | .36   |        | 3.194 | 32.609  |        | .184  | 20 |
| 57179  | .03   |        | 3.350 | 29.204   |         | .212 | 25 | 91083  | .60   |        | 3.301 | -36.677 |        | .170  | 20 |
| 57130  | .05   |        | 3.270 | 36.481   |         | .202 | 25 | 57132  | .23   |        | 3.240 | -45.304 |        | .191  | 25 |
| 57181  | .08   |        | 3.300 | 38.095   |         | .200 | 25 | 57187  | .49   |        | 3.350 | -34.490 |        | .182  | 25 |
| 57180  | .08   |        | 3.340 | -18.554  |         | .210 | 25 | 57186  | .57   |        | 3.370 | -20.877 |        | .190  | 25 |
| 57131  | .14   |        | 3.270 | 36.786   |         | .199 | 25 | 11020  | .90   |        | 3.380 | 23.158  |        | .160  | 25 |
| 20095  |       |        | 3.440 |          |         | .221 | 30 | 57133  | .94   |        | 3.230 | 20.638  |        | .207  | 25 |
| 10024  |       |        | 3.800 |          | -36.000 |      | 25 | 57188  | 1.54  |        | 3.090 | 21.429  |        | .159  | 25 |
| 10016  |       |        | 3.500 |          | 20.000  |      | 25 | 53051  | .36   | .09    | 3.095 | 27.069  | 10.023 | .178  | 25 |
| 53017  | .03   | .05    | 3.550 | 28.033   | 18.000  | .213 | 25 | 40076  | .59   | 5.21   | 3.080 | 12.203  | 7.006  | .127  | 26 |
| 43044  |       | .09    | 3.760 |          | -5.233  | .207 | 25 | 40077  | .69   | 6.82   | 3.060 | 9.275   | 6.261  | .124  | 26 |
| 53034  | .07   | .10    | 3.545 | -14.329  | -9.417  | .214 | 25 |        |       |        |       |         |        |       |    |
| 43033  |       | 2.63   | 3.070 |          | -3.802  | .199 | 25 | 83043  | 1.83  |        | 3.130 | 15.137  |        | .179  | 45 |
| 43034  |       | 4.80   | 3.370 |          | -3.396  | .172 | 25 |        |       |        |       |         |        |       |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 3.05 TO 3.8 M (3)

AQUEOUS HNO3 FROM 3.05 TO 3.8 M (4)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU  | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  |
|--------|-------|--------|-------|--------|-------|-------|----|--------|--------|--------|-------|-------|-------|-------|----|
| 32019  | 2.16  |        | 3.730 | 23.194 |       |       | 20 | 83045  | 27.50  |        | 3.480 | 3.149 |       | .075  | 45 |
| 91095  | 3.11  |        | 3.378 | 18.217 |       | .115  | 20 | 83069  | 32.91  |        | 3.420 | 2.295 |       | .077  | 60 |
| 82025  | 2.08  |        | 3.520 | 19.519 |       | .147  | 25 | 13048  | 32.14  |        | 3.600 | 2.730 |       | .086  | 70 |
| 52018  | 2.46  |        | 3.125 | 18.106 |       | .141  | 25 |        |        |        |       |       |       |       |    |
| 11021  | 4.76  |        | 3.310 | 12.900 |       | .106  | 25 | 31072  | 58.11  |        | 3.100 | 1.874 |       |       | 20 |
| 81045  | 6.50  | .09    | 3.230 |        | 3.886 | .105  | 25 | 91120  | 63.01  |        | 3.409 | 1.827 |       | .036  | 20 |
|        |       |        |       |        |       |       |    | 40097  | 87.01  |        | 3.070 | 1.299 |       | .029  | 26 |
| 70038  | 4.52  |        | 3.140 | 13.110 |       | .117  | 40 | 81042  | 90.52  | .76    | 3.330 |       | .526  | -.069 | 25 |
| 83044  | 6.08  |        | 3.270 | 8.438  |       | .135  | 45 | 41004  | 82.01  | 74.80  | 3.100 | .841  | .564  | .039  | 26 |
| 83067  | 2.50  |        | 3.090 | 10.760 |       | .171  | 60 |        |        |        |       |       |       |       |    |
| 83068  | 7.42  |        | 3.220 | 7.749  |       | .130  | 60 | 70040  | 59.28  |        | 3.056 | 1.803 |       | .049  | 40 |
| 13051  | 2.62  |        | 3.700 | 9.730  |       | .189  | 70 | 83046  | 73.41  |        | 3.540 | 1.335 |       | .051  | 45 |
|        |       |        |       |        |       |       |    | 83070  | 81.01  |        | 3.510 | 1.160 |       | .055  | 60 |
| 32025  | 8.90  |        | 3.130 | 8.270  |       |       | 20 | 13070  | 90.47  |        | 3.540 | .947  |       | .042  | 70 |
| 11022  | 10.95 |        | 3.320 | 7.543  |       | .066  | 25 | 56075  | 87.61  | 7.19   | 3.490 | .950  | 2.070 |       | 70 |
| 14009  | 14.28 |        | 3.060 | 6.000  |       | .072  | 25 | 56055  | 87.38  | 8.01   | 3.680 | .910  | 2.260 |       | 72 |
|        |       |        |       |        |       |       |    | 56074  | 83.09  | 8.17   | 3.510 | 1.045 | 1.710 |       | 60 |
| 31074  | 16.70 |        | 3.060 | 5.593  |       |       | 20 | 56054  | 79.99  | 8.87   | 3.710 | 1.060 | 1.900 |       | 59 |
| 91107  | 21.69 |        | 3.334 | 4.515  |       | -.040 | 20 | 56073  | 78.57  | 9.44   | 3.530 | 1.130 | 1.410 |       | 50 |
| 81044  | 17.20 | .22    | 3.280 |        | 1.797 | .073  | 25 | 56053  | 76.19  | 9.97   | 3.720 | 1.150 | 1.630 |       | 51 |
| 53012  | 21.65 | .34    | 3.515 | 4.499  | 1.777 | .048  | 25 | 56072  | 74.52  | 10.97  | 3.530 | 1.240 | 1.130 |       | 40 |
| 53011  | 24.40 | .38    | 3.060 | 3.984  | 1.458 | .048  | 25 | 56052  | 71.19  | 11.78  | 3.740 | 1.300 | 1.260 |       | 41 |
| 81050  | 16.80 | .40    | 3.320 | 5.022  | 1.680 | .072  | 25 | 56071  | 68.81  | 12.36  | 3.540 | 1.445 | .905  |       | 32 |
|        |       |        |       |        |       |       |    | 56051  | 67.85  | 13.48  | 3.750 | 1.430 | .970  |       | 32 |
| 31073  | 35.01 |        | 3.160 | 2.886  |       |       | 20 |        |        |        |       |       |       |       |    |
| 11023  | 27.62 |        | 3.340 | 3.397  |       | .048  | 25 | 31071  | 102.32 |        | 3.170 | 1.105 |       |       | 20 |
| 57152  | 42.21 |        | 3.240 | 2.396  |       | .034  | 25 | 91132  | 124.11 |        | 3.419 | .949  |       | .026  | 20 |
| 81043  | 46.81 | .46    | 3.380 |        | .874  | -.059 | 25 | 91131  | 124.61 |        | 3.140 | .959  |       | .021  | 20 |
| 40096  | 33.91 | 77.60  | 3.690 | 1.062  | .905  | .024  | 26 | 91152  | 233.04 |        | 3.755 | .524  |       | .019  | 20 |
|        |       |        |       |        |       |       |    | 91151  | 235.85 |        | 3.211 | .517  |       | .012  | 20 |
| 70039  | 26.90 |        | 3.160 | 3.416  |       | .068  | 40 | 11024  | 103.80 |        | 3.420 | 1.147 |       | .025  | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 3.05 TO 3.8 M (5)

AQUEOUS HNO3 FROM 3.8 TO 4.1 M (1)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU    | D-H   | T  |
|--------|--------|--------|-------|-------|------|-------|----|--------|-------|--------|-------|---------|---------|-------|----|
| 52042  | 121.28 |        | 3.143 | 1.010 |      | .020  | 25 | 31006  |       |        | 3.900 |         |         | .195  | 20 |
| 11025  | 122.14 |        | 3.440 | 1.012 |      | .023  | 25 | 84019  | .01   |        | 4.000 | -21.400 |         |       | 20 |
| 57207  | 248.51 |        | 3.080 | .475  |      | .014  | 25 | 52054  |       |        | 3.965 |         |         | .204  | 25 |
| 81041  | 191.53 | 1.32   | 3.230 | .572  | .295 | -.096 | 25 | 84020  | .01   |        | 4.000 | -18.700 |         |       | 30 |
| 41009  | 176.03 | 3.39   | 3.090 | .636  | .330 | .036  | 26 | 30005  |       |        | 4.000 |         | 20.000  |       | 22 |
| 41070  | 176.03 | 33.00  | 3.800 | .557  | .339 | .032  | 26 | 33056  |       |        | 4.000 |         | 25.400  |       | 23 |
| 41012  | 159.03 | 39.30  | 3.060 | .679  | .349 | .029  | 26 | 11057  |       |        | 4.000 |         | 21.500  |       | 25 |
| 41014  | 169.03 | 80.00  | 3.090 | .533  | .374 | .036  | 26 | 19033  |       |        | 4.000 |         | 24.000  |       | 25 |
|        |        |        |       |       |      |       |    | 33052  |       |        | 3.950 |         | 26.100  |       | 25 |
| 83047  | 128.02 |        | 3.590 | .797  |      | .042  | 45 | 10017  |       |        | 3.900 |         | 23.000  |       | 25 |
| 83048  | 185.03 |        | 3.600 | .627  |      | .036  | 45 | 10003  |       |        | 4.000 |         | 25.000  |       | 25 |
| 83071  | 139.72 |        | 3.540 | .732  |      | .047  | 60 | 10031  |       |        | 4.000 |         | 23.900  |       | 25 |
| 83072  | 183.53 |        | 3.560 | .557  |      | .042  | 60 | 68008  |       | .01    | 3.930 |         | -15.400 |       | 23 |
| 13045  | 109.99 |        | 3.590 | .968  |      | .058  | 70 | 41023  |       | .01    | 3.890 |         | 23.586  | .198  | 26 |
| 13044  | 199.99 |        | 3.630 | .564  |      | .047  | 70 | 41024  |       | .13    | 3.980 |         | 17.597  | .188  | 26 |
| 13069  | 249.98 |        | 3.270 | .371  |      | .034  | 70 | 43045  |       | .42    | 3.980 |         | -5.048  | .191  | 25 |
|        |        |        |       |       |      |       |    | 41025  |       | .45    | 3.940 |         | 19.111  | .183  | 26 |
|        |        |        |       |       |      |       |    | 43046  |       | .85    | 3.940 |         | -4.929  | .188  | 25 |
|        |        |        |       |       |      |       |    | 41026  |       | .98    | 3.930 |         | 17.041  | .165  | 26 |
|        |        |        |       |       |      |       |    | 41027  |       | 1.77   | 4.010 |         | 14.124  | .167  | 26 |
|        |        |        |       |       |      |       |    | 43047  |       | 2.53   | 3.990 |         | -4.427  | .185  | 25 |
|        |        |        |       |       |      |       |    | 41028  |       | 2.60   | 4.000 |         | 12.692  | .147  | 26 |
|        |        |        |       |       |      |       |    | 41029  |       | 3.26   | 3.990 |         | 11.350  | .148  | 26 |
|        |        |        |       |       |      |       |    | 41030  |       | 3.65   | 4.030 |         | 11.534  | -.104 | 26 |
|        |        |        |       |       |      |       |    | 41031  |       | 4.30   | 4.050 |         | 9.767   | -.104 | 26 |
|        |        |        |       |       |      |       |    | 41032  |       | 4.82   | 4.030 |         | 10.373  | -.097 | 26 |
|        |        |        |       |       |      |       |    | 41033  |       | 5.90   | 4.070 |         | 9.424   | .108  | 26 |
|        |        |        |       |       |      |       |    | 43049  |       | 8.40   | 3.830 |         | -4.167  | .120  | 25 |
|        |        |        |       |       |      |       |    | 20065  |       |        | 3.860 |         |         | .215  | 40 |
|        |        |        |       |       |      |       |    | 20066  |       |        | 4.020 |         |         | .216  | 40 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| AQUEOUS HNO3 FROM 3.8 TO 4.1 M (2) |       |        |       |         |        |       |    | AQUEOUS HNO3 FROM 3.8 TO 4.1 M (3) |       |        |       |       |       |      |    |
|------------------------------------|-------|--------|-------|---------|--------|-------|----|------------------------------------|-------|--------|-------|-------|-------|------|----|
| SOURCE                             | U-AQU | PU-AQU | H-AQU | D-U     | D-PU   | D-H   | T  | SOURCE                             | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H  | T  |
| 84021                              | .01   |        | 4.000 | -15.800 |        |       | 40 | 37016                              | 10.24 | .02    | 4.000 |       | 3.900 |      | 22 |
| 83082                              |       |        | 4.000 |         |        | .207  | 45 | 41045                              | 13.60 | 8.40   | 4.030 | 4.706 | 2.560 | .065 | 26 |
| 84022                              | .01   |        | 4.000 | -13.000 |        |       | 50 |                                    |       |        |       |       |       |      |    |
| 83086                              |       |        | 4.030 |         |        | .205  | 60 | 34097                              | 11.31 |        | 4.000 | 6.655 |       |      | 35 |
| 84023                              | .01   |        | 4.000 | -11.200 |        |       | 60 | 35025                              | 13.36 |        | 4.000 | 5.380 |       |      | 50 |
| 13091                              |       |        | 4.000 |         | 27.000 |       | 70 | 13050                              | 10.00 |        | 3.940 | 5.520 |       | .109 | 70 |
| 55020                              |       | 15.27  | 3.880 |         | 4.840  | .095  | 34 |                                    |       |        |       |       |       |      |    |
| 55037                              |       | 78.39  | 3.810 |         | 1.241  |       | 40 | 31093                              | 21.90 |        | 3.910 | 4.447 |       |      | 20 |
|                                    |       |        |       |         |        |       |    | 34069                              | 19.40 |        | 4.000 | 4.624 |       |      | 25 |
| 41034                              | .74   |        | 3.990 | 28.108  |        | .160  | 26 | 52043                              | 21.28 |        | 4.005 | 4.590 |       | .050 | 25 |
| 37013                              | .95   | .02    | 4.000 |         | 14.800 |       | 22 | 52019                              | 22.30 |        | 3.920 | 4.469 |       | .047 | 25 |
| 37014                              | 1.67  | .02    | 4.000 |         | 11.900 |       | 22 | 41041                              | 15.90 |        | 4.030 | 5.849 |       | .060 | 26 |
| 41035                              | .85   | .17    | 4.000 | 24.235  | 13.353 | .158  | 26 | 37017                              | 25.00 | .02    | 4.000 |       | 2.100 |      | 22 |
|                                    |       |        |       |         |        |       |    | 41042                              | 15.90 | .14    | 4.020 | 5.786 | 2.083 | .060 | 26 |
| 83049                              | 1.64  |        | 4.090 | 16.707  |        | .159  | 45 | 53013                              | 21.60 | .34    | 4.080 | 4.519 | 2.109 | .046 | 25 |
|                                    |       |        |       |         |        |       |    | 41043                              | 16.90 | .69    | 4.050 | 5.148 | 2.275 | .059 | 26 |
| 34067                              | 3.72  |        | 4.000 | 15.161  |        |       | 25 | 41044                              | 19.50 | 3.70   | 4.050 | 4.103 | 2.730 | .054 | 26 |
| 11017                              | 5.24  |        | 3.930 | 13.273  |        | -.059 | 25 | 41046                              | 19.90 | 17.00  | 3.960 | 3.116 | 1.500 | .051 | 26 |
| 41036                              | 3.50  |        | 4.040 | 14.686  |        | .114  | 26 |                                    |       |        |       |       |       |      |    |
| 37015                              | 6.43  | .02    | 4.000 |         | 5.400  |       | 22 | 34098                              | 21.78 |        | 4.000 | 4.054 |       |      | 35 |
| 41037                              | 4.50  | .12    | 3.950 | 12.956  | 7.016  | .109  | 26 | 13049                              | 20.71 |        | 3.810 | 3.480 |       | .092 | 70 |
| 41038                              | 3.50  | .47    | 3.990 | 13.771  | 7.115  | .115  | 26 |                                    |       |        |       |       |       |      |    |
| 41039                              | 2.40  | 2.42   | 3.940 | 13.833  | 8.512  | .117  | 26 | 31099                              | 30.11 |        | 3.870 | 3.458 |       |      | 20 |
| 41040                              | 2.40  | 8.01   | 4.050 | 9.208   | 5.980  | .079  | 26 | 32006                              | 39.71 |        | 3.930 | 2.690 |       |      | 20 |
|                                    |       |        |       |         |        |       |    | 82027                              | 26.50 |        | 3.960 | 3.623 |       | .057 | 25 |
| 34096                              | 2.45  |        | 4.000 | 16.240  |        |       | 35 | 52020                              | 39.46 |        | 3.980 | 2.687 |       | .035 | 25 |
| 35024                              | 3.10  |        | 4.000 | 12.400  |        |       | 50 | 82028                              | 42.01 |        | 3.980 | 2.381 |       | .047 | 25 |
|                                    |       |        |       |         |        |       |    | 34070                              | 46.61 |        | 4.000 | 2.215 |       |      | 25 |
| 32026                              | 7.80  |        | 3.850 | 9.269   |        |       | 20 | 41048                              | 43.01 |        | 3.980 | 2.512 |       | .050 | 26 |
| 82026                              | 8.50  |        | 3.860 | 8.635   |        | .093  | 25 | 41049                              | 42.01 | .11    | 4.030 | 2.548 | 1.496 | .047 | 26 |
| 34068                              | 9.61  |        | 4.000 | -9.886  |        |       | 25 | 41050                              | 40.01 | .55    | 4.020 | 2.650 | 1.273 | .050 | 26 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 3.8 TO 4.1 M (4)

AQUEOUS HNO3 FROM 3.8 TO 4.1 M (5)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  |
|--------|-------|--------|-------|-------|-------|-------|----|--------|--------|--------|-------|-------|------|-------|----|
| 41051  | 40.01 | 3.22   | 3.990 | 2.425 | 1.289 | .050  | 26 | 35028  | 76.66  |        | 4.000 | 1.350 |      |       | 50 |
| 41052  | 46.01 | 12.60  | 3.990 | 1.891 | 1.071 | .043  | 26 | 13047  | 56.66  |        | 3.870 | 1.650 |      | .065  | 70 |
| 34099  | 43.21 |        | 4.000 | 2.290 |       |       | 35 | 13046  | 82.14  |        | 3.900 | 1.223 |      | .056  | 70 |
| 35026  | 25.31 |        | 4.000 | 3.316 |       |       | 50 | 91144  | 157.53 |        | 3.827 | .759  |      | .020  | 20 |
| 56060  | 45.00 | 5.95   | 3.820 | 1.470 | 3.330 |       | 70 | 52024  | 121.02 |        | 3.980 | .959  |      | .020  | 25 |
| 56059  | 39.76 | 6.41   | 3.830 | 1.755 | 3.080 |       | 60 | 57228  | 130.45 |        | 4.100 | .825  |      | .019  | 25 |
| 56058  | 35.95 | 7.15   | 3.850 | 2.010 | 2.720 |       | 51 | 34073  | 147.62 |        | 4.000 | .765  |      |       | 25 |
| 56057  | 31.90 | 8.13   | 3.870 | 2.380 | 2.230 |       | 40 | 57208  | 241.37 |        | 4.000 | .477  |      | .015  | 25 |
| 56056  | 28.09 | 9.20   | 3.880 | 2.810 | 1.920 |       | 31 | 41062  | 160.03 |        | 4.030 | .731  |      | .030  | 26 |
| 91121  | 67.51 |        | 4.025 | 1.687 |       | .029  | 20 | 41074  | 296.05 |        | 3.910 | .402  |      | .031  | 26 |
| 11018  | 56.42 |        | 3.990 | 1.958 |       | -.021 | 25 | 37018  | 109.99 | .02    | 4.000 |       | .660 |       | 22 |
| 52021  | 59.21 |        | 3.920 | 1.875 |       | .028  | 25 | 41075  | 294.05 | .10    | 3.940 | .401  | .371 | -.033 | 26 |
| 82029  | 61.01 |        | 3.980 | 1.705 |       | .040  | 25 | 41063  | 168.03 | .11    | 3.990 | .690  | .452 | .030  | 26 |
| 34071  | 73.11 |        | 4.000 | 1.482 |       |       | 25 | 41076  | 294.05 | .49    | 3.820 | .398  | .355 | -.031 | 26 |
| 57236  | 74.03 |        | 3.880 | 1.424 |       | .025  | 25 | 41064  | 168.03 | .52    | 3.970 | .685  | .460 | .035  | 26 |
| 52022  | 77.56 |        | 3.990 | 1.457 |       | .025  | 25 | 41065  | 150.03 | 3.12   | 4.060 | .760  | .462 | .034  | 26 |
| 34072  | 96.92 |        | 4.000 | 1.142 |       |       | 25 | 41077  | 299.05 | 3.15   | 3.890 | .378  | .340 | -.033 | 26 |
| 82030  | 98.02 |        | 3.990 | 1.082 |       | .033  | 25 | 41066  | 174.03 | 3.21   | 3.960 | .661  | .421 | .023  | 26 |
| 52023  | 99.77 |        | 4.045 | 1.163 |       | .022  | 25 | 41067  | 160.03 | 10.00  | 4.010 | .662  | .480 | .032  | 26 |
| 41055  | 84.01 |        | 3.960 | 1.357 |       | .038  | 26 | 41078  | 297.05 | 10.00  | 4.000 | .364  | .360 | -.035 | 26 |
| 41056  | 79.01 | .12    | 4.050 | 1.443 | .800  | .027  | 26 | 41068  | 171.03 | 10.30  | 3.980 | .626  | .398 | .030  | 26 |
| 41057  | 77.01 | .50    | 4.070 | 1.429 | .780  | -.042 | 26 | 41069  | 156.03 | 18.30  | 4.000 | .660  | .464 | .028  | 26 |
| 41058  | 86.01 | 2.91   | 4.040 | 1.279 | .808  | -.040 | 26 | 41079  | 297.05 | 19.20  | 3.890 | .357  | .365 | -.033 | 26 |
| 41059  | 74.01 | 10.14  | 4.080 | 1.365 | .801  | .037  | 26 | 41080  | 306.05 | 39.40  | 3.880 | .337  | .365 | .026  | 26 |
| 41060  | 86.01 | 21.80  | 4.090 | 1.116 | .711  | .034  | 26 | 41071  | 159.03 | 40.20  | 3.950 | .591  | .493 | .023  | 26 |
| 35000  | 74.28 |        | 4.000 | 1.420 |       |       | 35 | 41072  | 195.03 | 69.00  | 3.950 | .431  | .435 | .028  | 26 |
| 35001  | 98.57 |        | 4.000 | 1.110 |       |       | 35 | 35002  | 150.35 |        | 4.000 | .740  |      |       | 35 |
| 35027  | 50.62 |        | 4.000 | 1.930 |       |       | 50 | 57261  | 263.75 |        | 3.910 | .442  |      | .019  | 40 |
|        |       |        |       |       |       |       |    | 35029  | 103.45 |        | 4.000 | 1.025 |      |       | 50 |



DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 3.8 TO 4.1 M (6)

AQUEOUS HNO3 FROM 4.1 TO 5.1 M (1)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H  | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U      | D-PU   | D-H   | T  |
|--------|--------|--------|-------|------|------|------|----|--------|-------|--------|-------|----------|--------|-------|----|
| 35030  | 148.80 |        | 4.000 | .752 |      |      | 50 | 20009  |       |        | 4.240 |          |        | .195  | 20 |
| 57252  | 139.02 |        | 3.900 | .721 |      | .036 | 60 | 20010  |       |        | 4.920 |          |        | .181  | 20 |
| 57244  | 249.94 |        | 3.840 | .422 |      | .032 | 60 | 91024  |       |        | 4.691 | -138.014 |        | .187  | 20 |
|        |        |        |       |      |      |      |    | 91012  |       |        | 4.697 | -24.564  |        | .183  | 20 |
|        |        |        |       |      |      |      |    | 91036  | .01   |        | 4.740 | 53.158   |        | .179  | 20 |
|        |        |        |       |      |      |      |    | 91048  | .02   |        | 4.815 | -66.313  |        | .181  | 20 |
|        |        |        |       |      |      |      |    | 91060  | .05   |        | 4.836 | -97.520  |        | .172  | 20 |
|        |        |        |       |      |      |      |    | 20045  |       |        | 4.130 |          |        | -.216 | 22 |
|        |        |        |       |      |      |      |    | 30031  |       |        | 4.470 |          |        | .190  | 23 |
|        |        |        |       |      |      |      |    | 12014  |       |        | 4.140 |          |        | .202  | 25 |
|        |        |        |       |      |      |      |    | 52055  |       |        | 4.585 |          |        | .194  | 25 |
|        |        |        |       |      |      |      |    | 11002  | .01   |        | 4.630 | 35.100   |        |       | 25 |
|        |        |        |       |      |      |      |    | 30006  |       |        | 5.000 |          | 30.000 |       | 22 |
|        |        |        |       |      |      |      |    | 10048  |       |        | 4.150 |          | 28.200 | .193  | 30 |
|        |        |        |       |      |      |      |    | 19014  |       |        | 4.600 |          | 20.500 |       | 25 |
|        |        |        |       |      |      |      |    | 10022  |       |        | 4.200 |          | 22.000 |       | 25 |
|        |        |        |       |      |      |      |    | 10018  |       |        | 4.500 |          | 25.000 |       | 25 |
|        |        |        |       |      |      |      |    | 68009  |       |        | 4.890 |          | 22.100 |       | 23 |
|        |        |        |       |      |      |      |    | 19015  |       | .01    | 4.600 |          | 21.500 |       | 25 |
|        |        |        |       |      |      |      |    | 19016  |       | .01    | 4.900 |          | 26.850 |       | 25 |
|        |        |        |       |      |      |      |    | 33021  |       | 1.40   | 5.000 |          | 21.786 |       | 25 |
|        |        |        |       |      |      |      |    | 33045  |       | 2.00   | 5.000 |          | 17.750 |       | 25 |
|        |        |        |       |      |      |      |    | 43048  |       | 4.70   | 4.230 |          | -4.277 | .163  | 25 |
|        |        |        |       |      |      |      |    | 33046  |       | 5.00   | 5.000 |          | 10.200 |       | 25 |
|        |        |        |       |      |      |      |    | 33022  |       | 6.00   | 5.000 |          | 8.867  |       | 25 |
|        |        |        |       |      |      |      |    | 55004  |       | 6.55   | 4.690 |          | 8.869  | -.061 | 25 |
|        |        |        |       |      |      |      |    | 55013  |       | 8.68   | 4.760 |          | 7.190  | -.065 | 28 |
|        |        |        |       |      |      |      |    | 43050  |       | 9.17   | 4.170 |          | -3.708 | .151  | 25 |
|        |        |        |       |      |      |      |    | 33047  |       | 10.00  | 5.000 |          | 6.400  |       | 25 |
|        |        |        |       |      |      |      |    | 43051  |       | 11.40  | 4.200 |          | -3.132 | .129  | 25 |
|        |        |        |       |      |      |      |    | 33023  |       | 14.70  | 5.000 |          | 4.796  |       | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 4.1 TO 5.1 M (2)

AQUEOUS HNO3 FROM 4.1 TO 5.1 M (3)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU   | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  |
|--------|-------|--------|-------|---------|--------|-------|----|--------|-------|--------|-------|-------|-------|-------|----|
| 43052  |       | 16.60  | 4.300 |         | -2.777 | .116  | 25 | 83074  | 7.35  |        | 4.220 | 6.966 |       | .123  | 60 |
| 33048  |       | 20.00  | 5.000 |         | 4.000  |       | 25 |        |       |        |       |       |       |       |    |
| 33024  |       | 47.50  | 5.000 |         | 2.147  |       | 25 | 37022  | 9.52  | .02    | 4.500 |       | 4.500 |       | 22 |
| 33049  |       | 50.00  | 5.000 |         | 2.500  |       | 25 | 41047  | 9.50  | 17.90  | 4.150 | 4.632 | 2.626 | .053  | 26 |
| 20067  |       |        | 4.920 |         |        | .199  | 40 | 31084  | 19.40 |        | 4.500 | 5.155 |       |       | 20 |
| 20083  |       |        | 4.220 |         |        | .217  | 60 | 91108  | 20.14 |        | 4.518 | 4.817 |       | -.026 | 20 |
| 20084  |       |        | 4.560 |         |        | .208  | 60 | 31094  | 22.40 |        | 4.970 | 4.362 |       |       | 20 |
| 20085  |       |        | 4.920 |         |        | .200  | 60 | 52026  | 20.55 |        | 4.930 | 4.783 |       | .045  | 25 |
| 55018  |       | 12.31  | 4.920 |         | 6.180  | -.053 | 31 | 37023  | 23.57 | .02    | 4.500 |       | 2.300 |       | 22 |
| 55034  |       | 47.32  | 5.100 |         | 2.000  |       | 37 |        |       |        |       |       |       |       |    |
| 55032  |       | 48.52  | 5.050 |         | 2.000  |       | 37 | 32000  | 30.11 |        | 4.940 | 3.488 |       |       | 20 |
| 55035  |       | 78.39  | 4.640 |         | 1.293  |       | 40 | 32007  | 39.71 |        | 4.880 | 2.710 |       |       | 20 |
| 55022  |       | 98.47  | 4.560 |         | .794   | .048  | 45 | 31083  | 41.71 |        | 4.540 | 2.590 |       |       | 20 |
| 91072  | .27   |        | 4.512 | 43.912  |        | .170  | 20 | 52027  | 37.71 |        | 4.970 | 2.785 |       | .034  | 25 |
| 91084  | .43   |        | 4.548 | -51.618 |        | .155  | 20 | 57190  | 41.11 |        | 4.520 | 2.470 |       | .033  | 25 |
| 31087  | .71   |        | 4.260 | 29.832  |        |       | 20 | 19036  | 32.31 |        | 5.000 |       | 1.600 |       | 25 |
| 31086  | 1.54  |        | 4.280 | 25.390  |        |       | 20 | 41053  | 36.01 | 21.30  | 4.140 | 2.139 | 1.164 | .041  | 26 |
| 52025  | 1.86  |        | 4.515 | 24.328  |        | -.026 | 25 | 41054  | 35.01 | 39.20  | 4.200 | 1.686 | 1.135 | .040  | 26 |
| 19017  | 1.70  |        | 4.600 |         | 13.850 |       | 25 | 83051  | 30.61 |        | 4.530 | 2.784 |       | .060  | 45 |
| 37019  | .71   | .02    | 4.500 |         | 18.000 |       | 22 | 83075  | 35.21 |        | 4.510 | 2.273 |       | .071  | 60 |
| 37020  | 1.43  | .02    | 4.500 |         | 14.100 |       | 22 |        |       |        |       |       |       |       |    |
| 91096  | 2.22  |        | 4.557 | -25.515 |        | -.086 | 20 | 31082  | 63.51 |        | 4.640 | 1.764 |       |       | 20 |
| 31085  | 3.55  |        | 4.400 | 17.099  |        |       | 20 | 52029  | 78.01 |        | 5.005 | 1.429 |       | .024  | 25 |
| 11016  | 5.71  |        | 4.580 | -14.500 |        | -.070 | 25 | 57191  | 84.31 |        | 4.290 | 1.307 |       | -.205 | 25 |
| 37021  | 5.95  | .02    | 4.500 |         | 6.000  |       | 22 | 41061  | 82.01 | 41.80  | 4.140 | .963  | .689  | .029  | 26 |
| 83050  | 5.21  |        | 4.260 | 9.866   |        | .117  | 45 | 83052  | 78.61 |        | 4.700 | 1.279 |       | .043  | 45 |
| 83073  | 2.49  |        | 4.150 | 10.964  |        | .160  | 60 | 83076  | 82.01 |        | 4.590 | 1.152 |       | .053  | 60 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 4.1 TO 5.1 M (4)

AQUEOUS HNO3 FROM 5.1 TO 11 M (1)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU  | D-U    | D-PU    | D-H  | T  |
|--------|--------|--------|-------|-------|------|-------|----|--------|-------|--------|--------|--------|---------|------|----|
| 31081  | 111.32 |        | 4.650 | 1.024 |      |       | 20 | 13086  |       |        | 5.300  |        | 25.000  |      | 0  |
| 91133  | 123.71 |        | 4.252 | .931  |      | .022  | 20 | 31007  |       |        | 5.330  |        |         | .167 | 20 |
| 91134  | 124.02 |        | 4.509 | .940  |      | .022  | 20 | 20011  |       |        | 5.680  |        |         | .169 | 20 |
| 31080  | 159.53 |        | 4.730 | .727  |      |       | 20 | 20012  |       |        | 7.000  |        |         | .132 | 20 |
| 91145  | 175.27 |        | 4.559 | .665  |      | .020  | 20 | 31008  |       |        | 7.470  |        |         | .141 | 20 |
| 31079  | 212.54 |        | 4.910 | .551  |      |       | 20 | 31009  |       |        | 8.110  |        |         | .134 | 20 |
| 91153  | 233.99 |        | 4.420 | .509  |      | -.090 | 20 | 20013  |       |        | 8.120  |        |         | .132 | 20 |
| 31078  | 263.64 |        | 4.890 | .451  |      |       | 20 | 20014  |       |        | 8.930  |        |         | .125 | 20 |
| 52030  | 102.02 |        | 5.010 | 1.108 |      | .022  | 25 | 20015  |       |        | 10.120 |        |         | .116 | 20 |
| 52031  | 123.52 |        | 4.970 | .935  |      | .021  | 25 | 31010  |       |        | 10.290 |        |         | .119 | 20 |
| 11019  | 149.04 |        | 4.110 | .783  |      | -.011 | 25 | 20046  |       |        | 5.130  |        |         | .195 | 22 |
| 37024  | 109.52 | .02    | 4.500 |       | .720 |       | 22 | 20047  |       |        | 6.160  |        |         | .175 | 22 |
| 41073  | 160.03 | 75.40  | 4.110 | .481  | .503 | .019  | 26 | 20048  |       |        | 7.640  |        |         | .145 | 22 |
|        |        |        |       |       |      |       |    | 20049  |       |        | 7.770  |        |         | .152 | 22 |
| 83053  | 129.02 |        | 4.730 | .779  |      | .036  | 45 | 20050  |       |        | 7.850  |        |         | .150 | 22 |
| 83054  | 193.03 |        | 4.740 | .557  |      | .032  | 45 | 20051  |       |        | 8.940  |        |         | .141 | 22 |
| 83077  | 135.52 |        | 4.630 | .793  |      | .044  | 60 | 30032  |       |        | 5.920  |        |         | .162 | 23 |
| 83078  | 192.03 |        | 4.650 | .547  |      | .041  | 60 | 30033  |       |        | 7.200  |        |         | .140 | 23 |
| 13071  | 192.84 |        | 4.180 | .519  |      | .036  | 70 | 30034  |       |        | 8.400  |        |         | .127 | 23 |
|        |        |        |       |       |      |       |    | 30035  |       |        | 9.060  |        |         | .123 | 23 |
|        |        |        |       |       |      |       |    | 52056  |       |        | 5.655  |        |         | .173 | 25 |
|        |        |        |       |       |      |       |    | 11015  |       |        | 5.910  |        |         | .162 | 25 |
|        |        |        |       |       |      |       |    | 11001  | .01   |        | 5.990  | 36.700 |         |      | 25 |
|        |        |        |       |       |      |       |    | 10049  |       |        | 6.480  |        | 43.400  | .152 | 30 |
|        |        |        |       |       |      |       |    | 19019  |       |        | 7.000  |        | 23.500  |      | 25 |
|        |        |        |       |       |      |       |    | 68012  |       |        | 7.870  |        | -49.500 |      | 23 |
|        |        |        |       |       |      |       |    | 68011  |       |        | 6.900  |        | 39.400  |      | 23 |
|        |        |        |       |       |      |       |    | 68013  |       |        | 8.870  |        | 34.000  |      | 23 |
|        |        |        |       |       |      |       |    | 10019  |       |        | 5.250  |        | 34.000  |      | 25 |
|        |        |        |       |       |      |       |    | 10004  |       |        | 6.000  |        | 35.000  |      | 25 |
|        |        |        |       |       |      |       |    | 10020  |       |        | 6.250  |        | 41.000  |      | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

AQUEOUS HNO3 FROM 5.1 TO 11 M (2)

AQUEOUS HNO3 FROM 5.1 TO 11 M (3)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU   | D-H  | T  |
|--------|-------|--------|-------|-------|--------|------|----|
| 68010  |       |        | 5.920 |       | 24.500 |      | 23 |
| 68014  |       |        | 9.870 |       | 20.200 |      | 23 |
| 19020  |       |        | 6.900 |       | 30.700 |      | 25 |
| 19021  |       | .01    | 7.300 |       | 34.150 |      | 25 |
| 55005  |       | 7.22   | 5.190 |       | 9.636  | .067 | 25 |
| 55006  |       | 7.34   | 6.790 |       | 9.544  | .052 | 25 |
| 55007  |       | 7.74   | 6.990 |       | 8.457  | .050 | 25 |
| 55008  |       | 7.93   | 7.490 |       | 8.735  | .054 | 25 |
| 55014  |       | 9.66   | 6.050 |       | 7.480  | .043 | 28 |
| 55015  |       | 10.30  | 7.100 |       | 7.270  | .032 | 28 |
| 20068  |       |        | 5.370 |       |        | .195 | 40 |
| 20069  |       |        | 8.190 |       |        | .140 | 40 |
| 20086  |       |        | 5.460 |       |        | .187 | 60 |
| 20087  |       |        | 6.130 |       |        | .175 | 60 |
| 20088  |       |        | 7.960 |       |        | .151 | 60 |
| 55019  |       | 14.60  | 6.970 |       | 5.480  | .034 | 31 |
| 55030  |       | 26.05  | 5.120 |       | 3.330  |      | 34 |
| 55023  |       | 113.52 | 5.180 |       | .785   | .112 | 45 |
| 19022  | .76   |        | 7.000 |       | 20.200 |      | 25 |
| 19023  | 2.12  |        | 6.700 |       | 12.800 |      | 25 |
| 19024  | 4.43  |        | 8.200 |       | -4.800 |      | 25 |
| 19018  | 9.00  |        | 5.200 |       | 4.300  |      | 25 |
| 91109  | 24.49 |        | 5.470 | 3.691 |        | .035 | 20 |
| 91122  | 65.01 |        | 5.648 | 1.677 |        | .026 | 20 |
| 52028  | 56.01 |        | 5.115 | 1.946 |        | .028 | 25 |

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H   | T  |
|--------|--------|--------|-------|------|------|-------|----|
| 91135  | 119.12 |        | 5.366 | .961 |      | .020  | 20 |
| 91146  | 179.77 |        | 6.134 | .665 |      | .022  | 20 |
| 91154  | 226.61 |        | 6.354 | .525 |      | -.039 | 20 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (USA) (1) |       |        |       |     |         |       |    | SOURCE-NUMBERS (USA) (2) |        |        |       |         |      |       |    |
|--------------------------|-------|--------|-------|-----|---------|-------|----|--------------------------|--------|--------|-------|---------|------|-------|----|
| SOURCE                   | U-AQU | PU-AQU | H-AQU | D-U | D-PU    | D-H   | T  | SOURCE                   | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU | D-H   | T  |
| 10001                    |       |        | .700  |     | 1.500   |       | 25 | 10053                    |        |        | .625  |         |      | .187  | 25 |
| 10002                    |       |        | 2.000 |     | 8.000   |       | 25 | 10054                    |        |        | .874  |         |      | .211  | 25 |
| 10003                    |       |        | 4.000 |     | 25.000  |       | 25 | 10055                    |        |        | .976  |         |      | .222  | 25 |
| 10004                    |       |        | 6.000 |     | 35.000  |       | 25 | 11001                    | .01    |        | 5.990 | 36.700  |      |       | 25 |
| 10011                    |       |        | .520  |     | .960    |       | 25 | 11002                    | .01    |        | 4.630 | 35.100  |      |       | 25 |
| 10012                    |       |        | .930  |     | 3.000   |       | 25 | 11003                    | .01    |        | 3.370 | 30.100  |      |       | 25 |
| 10013                    |       |        | 1.780 |     | 8.100   |       | 25 | 11004                    | .01    |        | 2.190 | 18.700  |      |       | 25 |
| 10014                    |       |        | 2.130 |     | 10.400  |       | 25 | 11005                    | .03    |        | 1.090 | 7.610   |      |       | 25 |
| 10015                    |       |        | 2.400 |     | 11.300  |       | 25 | 11006                    | .07    |        | .530  | 2.650   |      |       | 25 |
| 10016                    |       |        | 3.500 |     | 20.000  |       | 25 | 11007                    | .19    |        | .097  | .250    |      |       | 25 |
| 10017                    |       |        | 3.900 |     | 23.000  |       | 25 | 11008                    | .22    |        | .048  | .085    |      |       | 25 |
| 10018                    |       |        | 4.500 |     | 25.000  |       | 25 | 11009                    |        |        | .100  |         |      | .045  | 25 |
| 10019                    |       |        | 5.250 |     | 34.000  |       | 25 | 11010                    |        |        | .200  |         |      | .080  | 25 |
| 10020                    |       |        | 6.250 |     | 41.000  |       | 25 | 11011                    |        |        | .510  |         |      | .155  | 25 |
| 10021                    |       |        | .960  |     | 3.100   |       | 25 | 11012                    |        |        | 1.030 |         |      | .213  | 25 |
| 10022                    |       |        | 4.200 |     | 22.000  |       | 25 | 11013                    |        |        | 2.130 |         |      | .216  | 25 |
| 10023                    |       |        | 1.660 |     | -8.600  |       | 25 | 11014                    |        |        | 3.310 |         |      | .200  | 25 |
| 10024                    |       |        | 3.800 |     | -36.000 |       | 25 | 11015                    |        |        | 5.910 |         |      | .162  | 25 |
| 10031                    |       |        | 4.000 |     | 23.900  |       | 25 | 11016                    | 5.71   |        | 4.580 | -14.500 |      | -.070 | 25 |
| 10032                    |       |        | 1.000 |     | 3.000   |       | 25 | 11017                    | 5.24   |        | 3.930 | 13.273  |      | -.059 | 25 |
| 10033                    |       |        | .200  |     | .074    |       | 25 | 11018                    | 56.42  |        | 3.990 | 1.958   |      | -.021 | 25 |
| 10042                    |       |        | .476  |     | .730    | -.252 | 30 | 11019                    | 149.04 |        | 4.110 | .783    |      | -.011 | 25 |
| 10043                    |       |        | .711  |     | 1.600   | -.238 | 30 | 11020                    | .90    |        | 3.380 | 23.158  |      | .160  | 25 |
| 10044                    |       |        | .972  |     | 2.800   | -.252 | 30 | 11021                    | 4.76   |        | 3.310 | 12.900  |      | .106  | 25 |
| 10045                    |       |        | 1.490 |     | 5.060   | .233  | 30 | 11022                    | 10.95  |        | 3.320 | 7.543   |      | .066  | 25 |
| 10046                    |       |        | 2.060 |     | 8.270   | .225  | 30 | 11023                    | 27.62  |        | 3.340 | 3.397   |      | .048  | 25 |
| 10047                    |       |        | 3.010 |     | 15.800  | .216  | 30 | 11024                    | 103.80 |        | 3.420 | 1.147   |      | .025  | 25 |
| 10048                    |       |        | 4.150 |     | 28.200  | .193  | 30 | 11025                    | 122.14 |        | 3.440 | 1.012   |      | .023  | 25 |
| 10049                    |       |        | 6.480 |     | 43.400  | .152  | 30 | 11026                    | 1.45   |        | 2.130 | 14.918  |      | .192  | 25 |
| 10051                    |       |        | .321  |     |         | .125  | 25 | 11027                    | 4.76   |        | 2.140 | 10.550  |      | .117  | 25 |
| 10052                    |       |        | .499  |     |         | .166  | 25 | 11028                    | 12.14  |        | 2.140 | 6.294   |      | .079  | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

SOURCE-NUMBERS (USA) (3)

SOURCE-NUMBERS (USA) (4)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU   | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  |
|--------|--------|--------|-------|--------|--------|-------|----|--------|--------|--------|-------|-------|------|-------|----|
| 11029  | 12.62  |        | 2.140 | 5.792  |        | .086  | 25 | 12006  |        |        | .517  |       |      | .169  | 25 |
| 11030  | 27.38  |        | 2.150 | 3.304  |        | .053  | 25 | 12007  |        |        | .685  |       |      | .184  | 25 |
| 11031  | 94.76  |        | 2.200 | 1.204  |        | .034  | 25 | 12008  |        |        | .843  |       |      | .203  | 25 |
| 11032  | 3.79   |        | 1.030 | 6.478  |        | .175  | 25 | 12009  |        |        | 1.240 |       |      | .225  | 25 |
| 11033  | 11.67  |        | 1.040 | 4.204  |        | -.933 | 25 | 12010  |        |        | 1.600 |       |      | .229  | 25 |
| 11034  | 25.00  |        | 1.040 | 2.743  |        | .069  | 25 | 12011  |        |        | 2.030 |       |      | .229  | 25 |
| 11035  | 88.33  |        | 1.060 | 1.216  |        | -.050 | 25 | 12012  |        |        | 2.430 |       |      | .226  | 25 |
| 11036  | 111.42 |        | 1.070 | 1.026  |        | .032  | 25 | 12013  |        |        | 3.350 |       |      | .211  | 25 |
| 11037  | 6.83   |        | .510  | 2.927  |        | .139  | 25 | 12014  |        |        | 4.140 |       |      | .202  | 25 |
| 11038  | 11.90  |        | .510  | 2.540  |        | .100  | 25 | 12021  | 18.09  |        | .000  | .411  |      |       | 25 |
| 11039  | 11.90  |        | .510  | 2.640  |        | -.025 | 25 | 12022  | 28.66  |        | .000  | .655  |      |       | 25 |
| 11040  | 23.33  |        | .510  | 2.173  |        | .084  | 25 | 12023  | 38.43  |        | .000  | .833  |      |       | 25 |
| 11041  | 23.81  |        | .510  | 2.160  |        | -.022 | 25 | 12024  | 59.40  |        | .000  | .936  |      |       | 25 |
| 11042  | 72.85  |        | .520  | 1.271  |        | .042  | 25 | 12025  | 73.66  |        | .000  | .921  |      |       | 25 |
| 11043  | 85.47  |        | .520  | 1.162  |        | -.090 | 25 | 12026  | 91.02  |        | .000  | .883  |      |       | 25 |
| 11044  | 23.81  |        | .050  | -.017  |        | .040  | 25 | 12027  | 116.80 |        | .000  | .796  |      |       | 25 |
| 11045  | 11.67  |        | .050  | .490   |        | -.320 | 25 | 12028  | 205.61 |        | .000  | .556  |      |       | 25 |
| 11046  | 23.81  |        | .050  | -1.090 |        | -.320 | 25 | 13001  | 122.61 |        | 1.000 | .818  |      | -.080 | 70 |
| 11047  | 86.18  |        | .051  | .994   |        | -.647 | 25 | 13002  | 84.28  |        | .900  | 1.031 |      | .089  | 70 |
| 11051  |        |        | .015  |        | -.005  |       | 25 | 13003  | 43.33  |        | .800  | 1.511 |      | .125  | 70 |
| 11052  |        |        | .100  |        | .023   |       | 25 | 13004  | 30.47  |        | .800  | 1.719 |      | .112  | 70 |
| 11053  |        |        | .490  |        | .640   |       | 25 | 13005  | 110.47 |        | .600  | .793  |      |       | 70 |
| 11054  |        |        | .990  |        | 2.900  |       | 25 | 13006  | 52.85  |        | .500  | 1.185 |      |       | 70 |
| 11055  |        |        | 2.000 |        | 6.300  |       | 25 | 13007  | 110.71 |        | .300  | .744  |      |       | 70 |
| 11056  |        |        | 3.000 |        | 16.000 |       | 25 | 13008  | 92.85  |        | .300  | .808  |      |       | 70 |
| 11057  |        |        | 4.000 |        | 21.500 |       | 25 | 13009  | 55.47  |        | .300  | .888  |      |       | 70 |
| 12001  |        |        | .057  |        |        | .056  | 25 | 13010  | 44.04  |        | .300  | .903  |      |       | 70 |
| 12002  |        |        | .074  |        |        | .063  | 25 | 13011  | 125.23 |        | .000  | .679  |      |       | 70 |
| 12003  |        |        | .091  |        |        | .068  | 25 | 13012  | 92.14  |        | .000  | .700  |      |       | 70 |
| 12004  |        |        | .174  |        |        | .099  | 25 | 13013  | 67.85  |        | .000  | .681  |      |       | 70 |
| 12005  |        |        | .359  |        |        | .126  | 25 | 13014  | 53.81  |        | .000  | .602  |      |       | 70 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (USA) (5) |        |        |       |       |      |       |    | SOURCE-NUMBERS (USA) (6) |        |        |       |        |        |       |         |
|--------------------------|--------|--------|-------|-------|------|-------|----|--------------------------|--------|--------|-------|--------|--------|-------|---------|
| SOURCE                   | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  | SOURCE                   | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU   | D-H   | T       |
| 13015                    | 44.52  |        | .000  | .540  |      |       | 70 | 13046                    | 82.14  |        | 3.900 | 1.223  |        | .056  | 70      |
| 13016                    | 29.05  |        | .000  | .323  |      |       | 70 | 13047                    | 56.66  |        | 3.870 | 1.650  |        | .065  | 70      |
| 13017                    | 20.95  |        | .000  | .219  |      |       | 70 | 13048                    | 32.14  |        | 3.600 | 2.730  |        | .086  | 70      |
| 13018                    | 14.05  |        | .000  | .114  |      |       | 70 | 13049                    | 20.71  |        | 3.810 | 3.480  |        | .092  | 70      |
| 13019                    | 176.18 |        | 1.080 | .619  |      | .037  | 70 | 13050                    | 10.00  |        | 3.940 | 5.520  |        | .109  | 70      |
| 13020                    | 123.80 |        | 1.050 | .810  |      | .048  | 70 | 13051                    | 2.62   |        | 3.700 | 9.730  |        | .189  | 70      |
| 13021                    | 75.23  |        | 1.060 | 1.136 |      | .064  | 70 | 13061                    | 111.90 |        | .280  | .702   |        | -.021 | 70      |
| 13022                    | 57.14  |        | 1.070 | 1.392 |      | .069  | 70 | 13062                    | 252.36 |        | .880  | .434   |        | .034  | 70      |
| 13023                    | 35.47  |        | 1.080 | 1.624 |      | .093  | 70 | 13063                    | 223.80 |        | 2.120 | .468   |        | -.019 | 70      |
| 13024                    | 19.28  |        | 1.090 | 2.220 |      | .119  | 70 | 13064                    | 238.08 |        | 2.190 | .440   |        | -.023 | 70      |
| 13025                    | 5.24   |        | 1.090 | 3.180 |      | .138  | 70 | 13065                    | 54.76  |        | .670  | 1.043  |        | .087  | 70      |
| 13026                    | 202.37 |        | 2.030 | .585  |      | -.010 | 70 | 13066                    | 159.51 |        | 2.320 | .657   |        | -.026 | 70      |
| 13027                    | 147.61 |        | 2.010 | .727  |      | -.015 | 70 | 13067                    | 35.71  |        | 1.320 | -1.267 |        | .083  | 70      |
| 13028                    | 97.85  |        | 2.040 | 1.071 |      | -.029 | 70 | 13068                    | 88.09  |        | 2.360 | 1.027  |        | .047  | 70      |
| 13029                    | 71.90  |        | 1.970 | 1.325 |      | -.041 | 70 | 13069                    | 249.98 |        | 3.270 | .371   |        | .034  | 70      |
| 13030                    | 52.38  |        | 1.960 | 1.680 |      | .097  | 70 | 13070                    | 90.47  |        | 3.540 | .947   |        | .042  | 70      |
| 13031                    | 31.66  |        | 1.940 | 2.440 |      | .108  | 70 | 13071                    | 192.84 |        | 4.180 | .519   |        | .036  | 70      |
| 13032                    | 20.47  |        | 1.890 | 3.090 |      | .122  | 70 | 13072                    | 59.52  |        | 1.000 | -1.120 |        | -.050 | 70      |
| 13033                    | 10.00  |        | 1.970 | 4.570 |      | .127  | 70 | 13081                    |        |        | 1.030 |        | 2.200  |       | 0       |
| 13034                    | 3.81   |        | 1.890 | 6.060 |      | .159  | 70 | 13082                    |        |        | 1.400 |        | 3.900  |       | 0       |
| 13035                    | 221.41 |        | 3.030 | .492  |      | .043  | 70 | 13083                    |        |        | 2.160 |        | 6.600  |       | 0       |
| 13036                    | 81.90  |        | 3.000 | 1.189 |      | .053  | 70 | 13084                    |        |        | 3.100 |        | 11.000 |       | 0       |
| 13037                    | 81.19  |        | 2.830 | 1.246 |      | .056  | 70 | 13085                    |        |        | 3.800 |        | 15.500 |       | 0       |
| 13038                    | 57.14  |        | 2.860 | 1.683 |      | .059  | 70 | 13086                    |        |        | 5.300 |        | 25.000 |       | 0       |
| 13039                    | 33.81  |        | 3.000 | 2.320 |      | .077  | 70 | 13091                    |        |        | 4.000 |        | 27.000 |       | 70      |
| 13040                    | 31.43  |        | 2.940 | 2.460 |      | .082  | 70 | 13092                    |        |        | 1.000 |        | 4.240  |       | 70      |
| 13041                    | 21.67  |        | 2.990 | 3.220 |      | .097  | 70 | 13093                    |        |        | .200  |        | .099   |       | 70      |
| 13042                    | 10.00  |        | 3.020 | 5.020 |      | .133  | 70 | 14001                    |        |        | .410  |        |        |       | .146 25 |
| 13043                    | 2.86   |        | 3.000 | 9.170 |      | .173  | 70 | 14002                    |        |        | .780  |        |        |       | .192 25 |
| 13044                    | 199.99 |        | 3.630 | .564  |      | .047  | 70 | 14003                    |        |        | 1.530 |        |        |       | .222 25 |
| 13045                    | 109.99 |        | 3.590 | .968  |      | .058  | 70 | 14004                    |        |        | 3.070 |        |        |       | .231 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (USA) (7) |        |        |       |         |        |       |    | SOURCE-NUMBERS (USA) (8) |       |        |       |     |        |     |    |
|--------------------------|--------|--------|-------|---------|--------|-------|----|--------------------------|-------|--------|-------|-----|--------|-----|----|
| SOURCE                   | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU   | D-H   | T  | SOURCE                   | U-AQU | PU-AQU | H-AQU | D-U | D-PU   | D-H | T  |
| 14005                    | 12.62  |        | .000  | -.792   |        |       | 25 | 19031                    |       |        | .200  |     | .070   |     | 25 |
| 14006                    | 11.19  |        | 1.080 | 4.468   |        | .111  | 25 | 19032                    |       |        | 1.000 |     | 3.000  |     | 25 |
| 14007                    | 10.71  |        | 2.150 | 6.889   |        | .098  | 25 | 19033                    |       |        | 4.000 |     | 24.000 |     | 25 |
| 14008                    | 85.69  |        | .000  | .917    |        |       | 25 | 19035                    | 49.81 |        | 2.000 |     | -.460  |     | 25 |
| 14009                    | 14.28  |        | 3.060 | 6.000   |        | .072  | 25 | 19036                    | 32.31 |        | 5.000 |     | 1.600  |     | 25 |
| 14010                    | 85.69  |        | 1.010 | 1.194   |        | -.050 | 25 |                          |       |        |       |     |        |     |    |
| 14011                    | 214.24 |        | 2.110 | .556    |        | -.028 | 25 |                          |       |        |       |     |        |     |    |
| 19001                    | 2.19   |        | 2.305 | 16.700  | -4.000 |       | 25 |                          |       |        |       |     |        |     |    |
| 19002                    | 3.52   |        | 2.386 | 13.700  | 3.700  |       | 25 |                          |       |        |       |     |        |     |    |
| 19003                    | 4.93   |        | 2.448 | 12.100  | -2.300 |       | 25 |                          |       |        |       |     |        |     |    |
| 19004                    | 7.02   |        | 2.513 | -10.200 | -1.300 |       | 25 |                          |       |        |       |     |        |     |    |
| 19005                    | 10.19  |        | 2.580 | 7.900   | -1.600 |       | 25 |                          |       |        |       |     |        |     |    |
| 19006                    | 14.31  |        | 2.637 | 6.400   | -1.300 |       | 25 |                          |       |        |       |     |        |     |    |
| 19007                    | 17.40  |        | 2.667 | 5.400   | -1.100 |       | 25 |                          |       |        |       |     |        |     |    |
| 19008                    | 22.38  |        | 2.703 | 4.500   | -1.000 |       | 25 |                          |       |        |       |     |        |     |    |
| 19009                    | 29.86  |        | 2.741 | 3.600   | -.790  |       | 25 |                          |       |        |       |     |        |     |    |
| 19010                    | 49.23  |        | 2.798 | -2.300  | -.570  |       | 25 |                          |       |        |       |     |        |     |    |
| 19011                    |        |        | 2.200 |         | 8.450  |       | 25 |                          |       |        |       |     |        |     |    |
| 19012                    | 2.69   |        | 2.600 |         | 4.950  |       | 25 |                          |       |        |       |     |        |     |    |
| 19013                    | 12.59  |        | 3.000 |         | -2.050 |       | 25 |                          |       |        |       |     |        |     |    |
| 19014                    |        |        | 4.600 |         | 20.500 |       | 25 |                          |       |        |       |     |        |     |    |
| 19015                    |        | .01    | 4.600 |         | 21.500 |       | 25 |                          |       |        |       |     |        |     |    |
| 19016                    |        | .01    | 4.900 |         | 26.850 |       | 25 |                          |       |        |       |     |        |     |    |
| 19017                    | 1.70   |        | 4.600 |         | 13.850 |       | 25 |                          |       |        |       |     |        |     |    |
| 19018                    | 9.00   |        | 5.200 |         | 4.300  |       | 25 |                          |       |        |       |     |        |     |    |
| 19019                    |        |        | 7.000 |         | 23.500 |       | 25 |                          |       |        |       |     |        |     |    |
| 19020                    |        |        | 6.900 |         | 30.700 |       | 25 |                          |       |        |       |     |        |     |    |
| 19021                    |        | .01    | 7.300 |         | 34.150 |       | 25 |                          |       |        |       |     |        |     |    |
| 19022                    | .76    |        | 7.000 |         | 20.200 |       | 25 |                          |       |        |       |     |        |     |    |
| 19023                    | 2.12   |        | 6.700 |         | 12.800 |       | 25 |                          |       |        |       |     |        |     |    |
| 19024                    | 4.43   |        | 8.200 |         | -4.800 |       | 25 |                          |       |        |       |     |        |     |    |



DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

SOURCE-NUMBERS (GREAT BRITAIN) (1)

SOURCE-NUMBERS (GREAT BRITAIN) (2)

| SOURCE | U-AQU | PU-AQU | H-AQU  | D-U | D-PU | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U | D-PU | D-H   | T  |
|--------|-------|--------|--------|-----|------|-------|----|--------|-------|--------|-------|-----|------|-------|----|
| 20001  |       |        | .270   |     |      | -.082 | 20 | 20035  |       |        | .364  |     |      | .151  | 22 |
| 20002  |       |        | .640   |     |      | .175  | 20 | 20036  |       |        | .413  |     |      | .159  | 22 |
| 20003  |       |        | 1.060  |     |      | .210  | 20 | 20037  |       |        | .787  |     |      | .205  | 22 |
| 20004  |       |        | 1.420  |     |      | .215  | 20 | 20038  |       |        | .873  |     |      | .225  | 22 |
| 20005  |       |        | 1.980  |     |      | .217  | 20 | 20039  |       |        | 1.490 |     |      | .240  | 22 |
| 20006  |       |        | 2.720  |     |      | .223  | 20 | 20040  |       |        | 1.750 |     |      | .244  | 22 |
| 20007  |       |        | 3.450  |     |      | .209  | 20 | 20041  |       |        | 2.210 |     |      | .247  | 22 |
| 20008  |       |        | 3.690  |     |      | .207  | 20 | 20042  |       |        | 2.400 |     |      | .243  | 22 |
| 20009  |       |        | 4.240  |     |      | .195  | 20 | 20043  |       |        | 3.020 |     |      | -.236 | 22 |
| 20010  |       |        | 4.920  |     |      | .181  | 20 | 20044  |       |        | 3.500 |     |      | .223  | 22 |
| 20011  |       |        | 5.680  |     |      | .169  | 20 | 20045  |       |        | 4.130 |     |      | -.216 | 22 |
| 20012  |       |        | 7.000  |     |      | .132  | 20 | 20046  |       |        | 5.130 |     |      | .195  | 22 |
| 20013  |       |        | 8.120  |     |      | .132  | 20 | 20047  |       |        | 6.160 |     |      | .175  | 22 |
| 20014  |       |        | 8.930  |     |      | .125  | 20 | 20048  |       |        | 7.640 |     |      | .145  | 22 |
| 20015  |       |        | 10.120 |     |      | .116  | 20 | 20049  |       |        | 7.770 |     |      | .152  | 22 |
| 20018  |       |        | .100   |     |      | .061  | 15 | 20050  |       |        | 7.850 |     |      | .150  | 22 |
| 20019  |       |        | .200   |     |      | .135  | 15 | 20051  |       |        | 8.940 |     |      | .141  | 22 |
| 20020  |       |        | .300   |     |      | -.180 | 15 | 20053  |       |        | .048  |     |      | .020  | 40 |
| 20021  |       |        | .100   |     |      | .053  | 20 | 20054  |       |        | .101  |     |      | .040  | 40 |
| 20022  |       |        | .300   |     |      | .120  | 20 | 20055  |       |        | .394  |     |      | .114  | 40 |
| 20023  |       |        | .500   |     |      | .165  | 20 | 20056  |       |        | .593  |     |      | .159  | 40 |
| 20024  |       |        | .100   |     |      | .047  | 25 | 20057  |       |        | .765  |     |      | .174  | 40 |
| 20025  |       |        | .300   |     |      | .108  | 25 | 20058  |       |        | .995  |     |      | .203  | 40 |
| 20026  |       |        | .500   |     |      | .152  | 25 | 20059  |       |        | 1.490 |     |      | .226  | 40 |
| 20027  |       |        | .100   |     |      | .043  | 30 | 20060  |       |        | 1.870 |     |      | .234  | 40 |
| 20028  |       |        | .300   |     |      | .101  | 30 | 20061  |       |        | 1.870 |     |      | .235  | 40 |
| 20029  |       |        | .500   |     |      | .142  | 30 | 20062  |       |        | 2.690 |     |      | .239  | 40 |
| 20031  |       |        | .020   |     |      | .013  | 22 | 20063  |       |        | 2.950 |     |      | .235  | 40 |
| 20032  |       |        | .046   |     |      | .030  | 22 | 20064  |       |        | 3.750 |     |      | .221  | 40 |
| 20033  |       |        | .092   |     |      | .054  | 22 | 20065  |       |        | 3.860 |     |      | .215  | 40 |
| 20034  |       |        | .200   |     |      | .095  | 22 | 20066  |       |        | 4.020 |     |      | .216  | 40 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

| SOURCE-NUMBERS (GREAT BRITAIN) (3) |       |        |       |     |      |     |         | SOURCE-NUMBERS (FRANCE) (1) |       |        |       |     |         |      |    |
|------------------------------------|-------|--------|-------|-----|------|-----|---------|-----------------------------|-------|--------|-------|-----|---------|------|----|
| SOURCE                             | U-AQU | PU-AQU | H-AQU | D-U | D-PU | D-H | T       | SOURCE                      | U-AQU | PU-AQU | H-AQU | D-U | D-PU    | D-H  | T  |
| 20067                              |       |        | 4.920 |     |      |     | .199 40 | 30001                       |       |        | .500  |     | .810    |      | 22 |
| 20068                              |       |        | 5.370 |     |      |     | .195 40 | 30002                       |       |        | 1.000 |     | 2.700   |      | 22 |
| 20069                              |       |        | 8.190 |     |      |     | .140 40 | 30003                       |       |        | 2.000 |     | 6.000   |      | 22 |
| 20070                              |       |        | .050  |     |      |     | .017 60 | 30004                       |       |        | 3.000 |     | -11.000 |      | 22 |
| 20071                              |       |        | .101  |     |      |     | .034 60 | 30005                       |       |        | 4.000 |     | 20.000  |      | 22 |
| 20072                              |       |        | .407  |     |      |     | .102 60 | 30006                       |       |        | 5.000 |     | 30.000  |      | 22 |
| 20073                              |       |        | .729  |     |      |     | .154 60 | 30021                       |       |        | .200  |     |         | .100 | 23 |
| 20074                              |       |        | .952  |     |      |     | .179 60 | 30022                       |       |        | .440  |     |         | .136 | 23 |
| 20075                              |       |        | 1.390 |     |      |     | .225 60 | 30023                       |       |        | .700  |     |         | .171 | 23 |
| 20076                              |       |        | 1.470 |     |      |     | .222 60 | 30024                       |       |        | .930  |     |         | .194 | 23 |
| 20077                              |       |        | 1.770 |     |      |     | .237 60 | 30025                       |       |        | 1.120 |     |         | .205 | 23 |
| 20078                              |       |        | 2.110 |     |      |     | .238 60 | 30026                       |       |        | 1.360 |     |         | .213 | 23 |
| 20079                              |       |        | 2.110 |     |      |     | .239 60 | 30027                       |       |        | 1.570 |     |         | .217 | 23 |
| 20080                              |       |        | 2.450 |     |      |     | .246 60 | 30028                       |       |        | 1.700 |     |         | .218 | 23 |
| 20081                              |       |        | 3.290 |     |      |     | .231 60 | 30029                       |       |        | 2.310 |     |         | .216 | 23 |
| 20082                              |       |        | 3.720 |     |      |     | .225 60 | 30030                       |       |        | 3.500 |     |         | .197 | 23 |
| 20083                              |       |        | 4.220 |     |      |     | .217 60 | 30031                       |       |        | 4.470 |     |         | .190 | 23 |
| 20084                              |       |        | 4.560 |     |      |     | .208 60 | 30032                       |       |        | 5.920 |     |         | .162 | 23 |
| 20085                              |       |        | 4.920 |     |      |     | .200 60 | 30033                       |       |        | 7.200 |     |         | .140 | 23 |
| 20086                              |       |        | 5.460 |     |      |     | .187 60 | 30034                       |       |        | 8.400 |     |         | .127 | 23 |
| 20087                              |       |        | 6.130 |     |      |     | .175 60 | 30035                       |       |        | 9.060 |     |         | .123 | 23 |
| 20088                              |       |        | 7.960 |     |      |     | .151 60 | 30041                       |       | 2.50   | .500  |     | .800    |      | 25 |
| 20089                              |       |        | .101  |     |      |     | .045 30 | 30042                       |       | 5.00   | .500  |     | .800    |      | 25 |
| 20090                              |       |        | .389  |     |      |     | .130 30 | 30043                       |       | 7.50   | .500  |     | .800    |      | 25 |
| 20091                              |       |        | .727  |     |      |     | .187 30 | 30044                       |       | 10.00  | .500  |     | .800    |      | 25 |
| 20092                              |       |        | .919  |     |      |     | .208 30 | 30045                       | 35.01 | 2.50   | .500  |     | .400    |      | 25 |
| 20093                              |       |        | 1.860 |     |      |     | .242 30 | 30046                       | 35.01 | 5.00   | .500  |     | .500    |      | 25 |
| 20094                              |       |        | 2.750 |     |      |     | .237 30 | 30047                       | 35.01 | 10.00  | .500  |     | .525    |      | 25 |
| 20095                              |       |        | 3.440 |     |      |     | .221 30 | 30048                       | 35.01 | 15.00  | .500  |     | .600    |      | 25 |
|                                    |       |        |       |     |      |     |         | 30049                       |       | 2.50   | 1.000 |     | 2.000   |      | 25 |
|                                    |       |        |       |     |      |     |         | 30050                       |       | 5.00   | 1.000 |     | 2.000   |      | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (FRANCE) (2) |       |        |       |     |        |      |    | SOURCE-NUMBERS (FRANCE) (3) |        |        |        |       |      |      |    |
|-----------------------------|-------|--------|-------|-----|--------|------|----|-----------------------------|--------|--------|--------|-------|------|------|----|
| SOURCE                      | U-AQU | PU-AQU | H-AQU | D-U | D-PU   | D-H  | T  | SOURCE                      | U-AQU  | PU-AQU | H-AQU  | D-U   | D-PU | D-H  | T  |
| 30051                       |       | 10.00  | 1.000 |     | 1.900  |      | 25 | 31010                       |        |        | 10.290 |       |      | .119 | 20 |
| 30052                       |       | 20.00  | 1.000 |     | 1.835  |      | 25 | 31011                       | 8.45   |        | .000   | .169  |      |      | 20 |
| 30053                       | 35.01 | 2.50   | 1.000 |     | .800   |      | 25 | 31012                       | 9.88   |        | .000   | .185  |      |      | 20 |
| 30054                       | 35.01 | 5.00   | 1.000 |     | .850   |      | 25 | 31013                       | 16.90  |        | .000   | .369  |      |      | 20 |
| 30055                       | 35.01 | 10.00  | 1.000 |     | .825   |      | 25 | 31014                       | 18.30  |        | .000   | .429  |      |      | 20 |
| 30056                       | 35.01 | 20.00  | 1.000 |     | .750   |      | 25 | 31015                       | 22.70  |        | .000   | .559  |      |      | 20 |
| 30057                       |       | 2.50   | 2.000 |     | 6.500  |      | 25 | 31016                       | 28.80  |        | .000   | .705  |      |      | 20 |
| 30058                       |       | 5.00   | 2.000 |     | 5.300  |      | 25 | 31017                       | 34.51  |        | .000   | .797  |      |      | 20 |
| 30059                       |       | 10.00  | 2.000 |     | 4.000  |      | 25 | 31018                       | 39.21  |        | .000   | .855  |      |      | 20 |
| 30060                       |       | 20.00  | 2.000 |     | 2.875  |      | 25 | 31019                       | 41.91  |        | .000   | .916  |      |      | 20 |
| 30061                       | 40.01 | 2.50   | 2.000 |     | .700   |      | 25 | 31020                       | 56.71  |        | .000   | .928  |      |      | 20 |
| 30062                       | 40.01 | 5.00   | 2.000 |     | .700   |      | 25 | 31021                       | 62.01  |        | .000   | .939  |      |      | 20 |
| 30063                       | 40.01 | 10.00  | 2.000 |     | .800   |      | 25 | 31022                       | 75.11  |        | .000   | .900  |      |      | 20 |
| 30064                       | 40.01 | 20.00  | 2.000 |     | -.950  |      | 25 | 31023                       | 88.01  |        | .000   | .883  |      |      | 20 |
| 30065                       |       | 2.50   | 3.000 |     | 10.080 |      | 25 | 31024                       | 102.22 |        | .000   | .853  |      |      | 20 |
| 30066                       |       | 5.00   | 3.000 |     | 7.440  |      | 25 | 31025                       | 132.12 |        | .000   | .748  |      |      | 20 |
| 30067                       |       | 10.00  | 3.000 |     | 5.150  |      | 25 | 31026                       | 147.52 |        | .000   | .706  |      |      | 20 |
| 30068                       |       | 20.00  | 3.000 |     | 3.425  |      | 25 | 31027                       | 189.03 |        | .542   | .608  |      |      | 20 |
| 30069                       | 40.01 | 2.50   | 3.000 |     | -.700  |      | 25 | 31028                       | 205.03 |        | .562   | .566  |      |      | 20 |
| 30070                       | 40.01 | 5.00   | 3.000 |     | .850   |      | 25 | 31029                       | 167.03 |        | .538   | .671  |      |      | 20 |
| 30071                       | 40.01 | 10.00  | 3.000 |     | 1.125  |      | 25 | 31030                       | 147.02 |        | .522   | .728  |      |      | 20 |
| 30072                       | 40.01 | 20.00  | 3.000 |     | -1.550 |      | 25 | 31031                       | 127.02 |        | .499   | .827  |      |      | 20 |
| 31001                       |       |        | .663  |     |        | .166 | 20 | 31032                       | 108.02 |        | .517   | .926  |      |      | 20 |
| 31002                       |       |        | .960  |     |        | .187 | 20 | 31033                       | 90.42  |        | .503   | 1.046 |      |      | 20 |
| 31003                       |       |        | 1.580 |     |        | .222 | 20 | 31034                       | 71.61  |        | .503   | 1.214 |      |      | 20 |
| 31004                       |       |        | 2.150 |     |        | .223 | 20 | 31035                       | 52.91  |        | .503   | 1.431 |      |      | 20 |
| 31005                       |       |        | 2.990 |     |        | .217 | 20 | 31036                       | 37.11  |        | .498   | 1.712 |      |      | 20 |
| 31006                       |       |        | 3.900 |     |        | .195 | 20 | 31037                       | 30.31  |        | .508   | 1.917 |      |      | 20 |
| 31007                       |       |        | 5.330 |     |        | .167 | 20 | 31038                       | 23.30  |        | .508   | 2.082 |      |      | 20 |
| 31008                       |       |        | 7.470 |     |        | .141 | 20 | 31039                       | 10.90  |        | .493   | 2.514 |      |      | 20 |
| 31009                       |       |        | 8.110 |     |        | .134 | 20 | 31040                       | 8.86   |        | .508   | 2.607 |      |      | 20 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (FRANCE) (4) |        |        |       |         |      |     |    | SOURCE-NUMBERS (FRANCE) (5) |        |        |       |         |      |     |    |
|-----------------------------|--------|--------|-------|---------|------|-----|----|-----------------------------|--------|--------|-------|---------|------|-----|----|
| SOURCE                      | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU | D-H | T  | SOURCE                      | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU | D-H | T  |
| 31041                       | 5.47   |        | .488  | 2.779   |      |     | 20 | 31072                       | 58.11  |        | 3.100 | 1.874   |      |     | 20 |
| 31042                       | 3.25   |        | .488  | 2.920   |      |     | 20 | 31073                       | 35.01  |        | 3.160 | 2.886   |      |     | 20 |
| 31043                       | 346.06 |        | 1.100 | .353    |      |     | 20 | 31074                       | 16.70  |        | 3.060 | 5.593   |      |     | 20 |
| 31044                       | 286.05 |        | 1.120 | .424    |      |     | 20 | 31075                       | 4.25   |        | 3.050 | 13.012  |      |     | 20 |
| 31045                       | 223.04 |        | 1.060 | .537    |      |     | 20 | 31076                       | 1.72   |        | 2.980 | 21.105  |      |     | 20 |
| 31046                       | 157.03 |        | 1.080 | .731    |      |     | 20 | 31077                       | .42    |        | 2.940 | -63.462 |      |     | 20 |
| 31047                       | 95.22  |        | 1.020 | 1.106   |      |     | 20 | 31078                       | 263.64 |        | 4.890 | .451    |      |     | 20 |
| 31048                       | 63.51  |        | .920  | 1.548   |      |     | 20 | 31079                       | 212.54 |        | 4.910 | .551    |      |     | 20 |
| 31049                       | 37.51  |        | .990  | 2.176   |      |     | 20 | 31080                       | 159.53 |        | 4.730 | .727    |      |     | 20 |
| 31050                       | 14.00  |        | .990  | 4.200   |      |     | 20 | 31081                       | 111.32 |        | 4.650 | 1.024   |      |     | 20 |
| 31051                       | 6.15   |        | .990  | 5.073   |      |     | 20 | 31082                       | 63.51  |        | 4.640 | 1.764   |      |     | 20 |
| 31052                       | 2.10   |        | 1.020 | 6.571   |      |     | 20 | 31083                       | 41.71  |        | 4.540 | 2.590   |      |     | 20 |
| 31053                       | 263.14 |        | 2.240 | .455    |      |     | 20 | 31084                       | 19.40  |        | 4.500 | 5.155   |      |     | 20 |
| 31054                       | 238.64 |        | 2.200 | .499    |      |     | 20 | 31085                       | 3.55   |        | 4.400 | 17.099  |      |     | 20 |
| 31055                       | 214.84 |        | 2.230 | .551    |      |     | 20 | 31086                       | 1.54   |        | 4.280 | 25.390  |      |     | 20 |
| 31056                       | 188.63 |        | 2.230 | .621    |      |     | 20 | 31087                       | .71    |        | 4.260 | 29.832  |      |     | 20 |
| 31057                       | 165.43 |        | 2.220 | .698    |      |     | 20 | 31088                       | 21.60  |        | .503  | 2.106   |      |     | 20 |
| 31058                       | 138.02 |        | 2.250 | .828    |      |     | 20 | 31089                       | 21.50  |        | .911  | 2.837   |      |     | 20 |
| 31059                       | 113.72 |        | 2.250 | .986    |      |     | 20 | 31090                       | 20.50  |        | 1.520 | 3.683   |      |     | 20 |
| 31060                       | 89.92  |        | 2.250 | 1.205   |      |     | 20 | 31091                       | 21.60  |        | 2.000 | 3.801   |      |     | 20 |
| 31061                       | 65.51  |        | 2.220 | 1.594   |      |     | 20 | 31092                       | 21.80  |        | 2.950 | 4.271   |      |     | 20 |
| 31062                       | 42.21  |        | 2.140 | 2.320   |      |     | 20 | 31093                       | 21.90  |        | 3.910 | 4.447   |      |     | 20 |
| 31063                       | 20.50  |        | 2.160 | 4.098   |      |     | 20 | 31094                       | 22.40  |        | 4.970 | 4.362   |      |     | 20 |
| 31064                       | 7.00   |        | 2.120 | 8.129   |      |     | 20 | 31095                       | 29.75  |        | .470  | 1.913   |      |     | 20 |
| 31065                       | 4.60   |        | 2.120 | 10.087  |      |     | 20 | 31096                       | 29.91  |        | .980  | 2.492   |      |     | 20 |
| 31066                       | 2.44   |        | 2.120 | 12.480  |      |     | 20 | 31097                       | 30.11  |        | 2.290 | 3.143   |      |     | 20 |
| 31067                       | 1.31   |        | 2.120 | -14.542 |      |     | 20 | 31098                       | 30.11  |        | 2.950 | 3.372   |      |     | 20 |
| 31068                       | .68    |        | 2.120 | 19.118  |      |     | 20 | 31099                       | 30.11  |        | 3.870 | 3.458   |      |     | 20 |
| 31069                       | 193.43 |        | 3.040 | .617    |      |     | 20 | 32000                       | 30.11  |        | 4.940 | 3.488   |      |     | 20 |
| 31070                       | 148.83 |        | 3.020 | .788    |      |     | 20 | 32001                       | 39.51  |        | .490  | 1.620   |      |     | 20 |
| 31071                       | 102.32 |        | 3.170 | 1.105   |      |     | 20 | 32002                       | 40.01  |        | .960  | 2.030   |      |     | 20 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

| SOURCE-NUMBERS (FRANCE) (6) |       |        |       |        |       |     |    | SOURCE-NUMBERS (FRANCE) (7) |       |        |       |     |        |     |    |
|-----------------------------|-------|--------|-------|--------|-------|-----|----|-----------------------------|-------|--------|-------|-----|--------|-----|----|
| SOURCE                      | U-AQU | PU-AQU | H-AQU | D-U    | D-PU  | D-H | T  | SOURCE                      | U-AQU | PU-AQU | H-AQU | D-U | D-PU   | D-H | T  |
| 32003                       | 39.31 |        | 1.400 | 2.285  |       |     | 20 | 33008                       |       | 20.00  | 1.000 |     | 1.600  |     | 25 |
| 32004                       | 39.71 |        | 1.860 | 2.484  |       |     | 20 | 33009                       |       | 26.20  | 1.000 |     | 1.458  |     | 25 |
| 32005                       | 39.31 |        | 2.880 | 2.664  |       |     | 20 | 33010                       |       | 49.50  | 1.000 |     | 1.156  |     | 25 |
| 32006                       | 39.71 |        | 3.930 | 2.690  |       |     | 20 | 33011                       |       | 1.50   | 2.000 |     | 6.667  |     | 25 |
| 32007                       | 39.71 |        | 4.880 | 2.710  |       |     | 20 | 33012                       |       | 3.50   | 2.000 |     | 6.000  |     | 25 |
| 32008                       | 47.21 |        | .495  | 1.564  |       |     | 20 | 33013                       |       | 7.00   | 2.000 |     | 4.814  |     | 25 |
| 32009                       | 49.31 |        | 1.060 | 1.846  |       |     | 20 | 33014                       |       | 16.00  | 2.000 |     | 3.125  |     | 25 |
| 32010                       | 49.01 |        | 2.200 | 2.100  |       |     | 20 | 33015                       |       | 27.20  | 2.000 |     | 2.379  |     | 25 |
| 32011                       | 49.01 |        | 3.050 | 2.173  |       |     | 20 | 33016                       |       | 37.20  | 2.000 |     | 2.016  |     | 25 |
| 32012                       | 52.11 |        | .020  | .960   |       |     | 20 | 33017                       |       | 1.40   | 3.000 |     | 13.571 |     | 25 |
| 32013                       | 26.10 |        | .460  | 1.946  |       |     | 20 | 33018                       |       | 6.75   | 3.000 |     | 6.444  |     | 25 |
| 32014                       | 16.50 |        | .840  | 3.042  |       |     | 20 | 33019                       |       | 15.00  | 3.000 |     | 4.167  |     | 25 |
| 32015                       | 10.40 |        | 1.220 | 4.846  |       |     | 20 | 33020                       |       | 48.50  | 3.000 |     | 1.994  |     | 25 |
| 32016                       | 8.61  |        | 1.490 | 5.865  |       |     | 20 | 33021                       |       | 1.40   | 5.000 |     | 21.786 |     | 25 |
| 32017                       | 5.15  |        | 2.240 | 9.748  |       |     | 20 | 33022                       |       | 6.00   | 5.000 |     | 8.867  |     | 25 |
| 32018                       | 3.85  |        | 2.900 | 13.013 |       |     | 20 | 33023                       |       | 14.70  | 5.000 |     | 4.796  |     | 25 |
| 32019                       | 2.16  |        | 3.730 | 23.194 |       |     | 20 | 33024                       |       | 47.50  | 5.000 |     | 2.147  |     | 25 |
| 32020                       | 54.51 |        | .430  | 1.339  |       |     | 20 | 33025                       |       | 2.00   | .500  |     | .850   |     | 25 |
| 32021                       | 36.11 |        | .850  | 2.036  |       |     | 20 | 33026                       |       | 5.00   | .500  |     | .850   |     | 25 |
| 32022                       | 25.50 |        | 1.170 | 2.878  |       |     | 20 | 33027                       |       | 10.00  | .500  |     | .850   |     | 25 |
| 32023                       | 19.60 |        | 1.610 | 3.765  |       |     | 20 | 33028                       |       | 20.00  | .500  |     | .850   |     | 25 |
| 32024                       | 12.00 |        | 2.340 | 6.158  |       |     | 20 | 33029                       |       | 50.00  | .500  |     | .850   |     | 25 |
| 32025                       | 8.90  |        | 3.130 | 8.270  |       |     | 20 | 33030                       |       | 2.00   | 1.000 |     | 2.550  |     | 25 |
| 32026                       | 7.80  |        | 3.850 | 9.269  |       |     | 20 | 33031                       |       | 5.00   | 1.000 |     | 2.300  |     | 25 |
| 33001                       |       | .80    | .500  |        | .938  |     | 25 | 33032                       |       | 10.00  | 1.000 |     | 1.950  |     | 25 |
| 33002                       |       | 5.00   | .500  |        | .860  |     | 25 | 33033                       |       | 20.00  | 1.000 |     | 1.600  |     | 25 |
| 33003                       |       | 9.50   | .500  |        | .895  |     | 25 | 33034                       |       | 50.00  | 1.000 |     | 1.200  |     | 25 |
| 33004                       |       | 21.00  | .500  |        | .833  |     | 25 | 33035                       |       | 2.00   | 2.000 |     | 7.150  |     | 25 |
| 33005                       |       | 49.00  | .500  |        | .837  |     | 25 | 33036                       |       | 5.00   | 2.000 |     | 5.350  |     | 25 |
| 33006                       |       | 2.20   | 1.000 |        | 2.273 |     | 25 | 33037                       |       | 10.00  | 2.000 |     | 4.050  |     | 25 |
| 33007                       |       | 9.50   | 1.000 |        | 1.916 |     | 25 | 33038                       |       | 20.00  | 2.000 |     | 2.900  |     | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (FRANCE) (8) |       |        |       |     |        |     |    | SOURCE-NUMBERS (FRANCE) (9) |        |        |       |         |        |     |    |
|-----------------------------|-------|--------|-------|-----|--------|-----|----|-----------------------------|--------|--------|-------|---------|--------|-----|----|
| SOURCE                      | U-AQU | PU-AQU | H-AQU | D-U | D-PU   | D-H | T  | SOURCE                      | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU   | D-H | T  |
| 33039                       |       | 50.00  | 2.000 |     | 1.850  |     | 25 | 33070                       |        | 1.06   | 3.000 |         | 11.900 |     | 25 |
| 33040                       |       | 2.00   | 3.000 |     | 11.150 |     | 25 | 33071                       | .11    | .10    | 2.940 | 31.000  | 15.000 |     | 25 |
| 33041                       |       | 5.00   | 3.000 |     | 7.450  |     | 25 | 33072                       | 1.04   | .09    | 2.940 | 25.000  | 11.000 |     | 25 |
| 33042                       |       | 10.00  | 3.000 |     | 5.200  |     | 25 | 33073                       | 10.53  | .12    | 2.950 | 7.600   | 3.300  |     | 25 |
| 33043                       |       | 20.00  | 3.000 |     | 3.500  |     | 25 | 33074                       | 100.02 | .10    | 2.970 | 1.120   | .540   |     | 25 |
| 33044                       |       | 50.00  | 3.000 |     | 1.950  |     | 25 | 33075                       | 23.42  | .10    | 2.970 | -.790   | -.400  |     | 25 |
| 33045                       |       | 2.00   | 5.000 |     | 17.750 |     | 25 | 33076                       | .11    | 1.00   | 3.030 | 29.000  | 14.500 |     | 25 |
| 33046                       |       | 5.00   | 5.000 |     | 10.200 |     | 25 | 33077                       | .90    | .83    | 3.040 | 22.400  | 11.800 |     | 25 |
| 33047                       |       | 10.00  | 5.000 |     | 6.400  |     | 25 | 33078                       | 14.17  | 1.46   | 3.000 | 6.000   | 2.400  |     | 25 |
| 33048                       |       | 20.00  | 5.000 |     | 4.000  |     | 25 | 33079                       | 94.93  | 1.00   | 2.980 | 1.180   | .500   |     | 25 |
| 33049                       |       | 50.00  | 5.000 |     | 2.500  |     | 25 | 33080                       | 147.46 | 1.00   | 2.960 | .780    | .380   |     | 25 |
| 33050                       |       | .01    | 1.990 |     | 9.060  |     | 25 | 33081                       | .14    | 5.01   | 3.050 | -13.200 | 9.200  |     | 25 |
| 33051                       |       |        | 2.940 |     | 16.600 |     | 25 | 33082                       | 1.61   | 6.42   | 2.970 | 13.700  | 5.700  |     | 25 |
| 33052                       |       |        | 3.950 |     | 26.100 |     | 25 | 33083                       | 11.87  | 6.07   | 2.970 | 5.900   | 2.700  |     | 25 |
| 33053                       |       |        | 1.000 |     | 3.400  |     | 23 | 33084                       | 95.67  | 5.68   | 3.050 | 1.150   | .500   |     | 25 |
| 33054                       |       |        | 2.000 |     | 8.900  |     | 23 | 33085                       | 142.00 | 5.38   | 3.050 | .810    | .370   |     | 25 |
| 33055                       |       |        | 3.000 |     | 16.000 |     | 23 | 33086                       | .09    | 7.20   | 2.990 | 19.000  | 7.500  |     | 25 |
| 33056                       |       |        | 4.000 |     | 25.400 |     | 23 | 33087                       | 1.33   | 9.26   | 2.880 | 11.300  | 5.400  |     | 25 |
| 33057                       | 1.87  | 2.930  |       |     | 12.600 |     | 25 | 33088                       | 14.18  | 12.73  | 2.900 | 4.500   | 2.200  |     | 25 |
| 33058                       | 1.10  | 2.940  |       |     | 13.000 |     | 25 | 33089                       | 99.65  | 9.20   | 2.990 | 1.080   | .500   |     | 25 |
| 33059                       | .31   | 2.910  |       |     | 15.200 |     | 25 | 33090                       | 152.66 | 9.47   | 3.010 | .760    | .380   |     | 25 |
| 33060                       | .09   | 3.000  |       |     | 16.100 |     | 25 | 33091                       | .09    | 19.62  | 3.000 | 11.500  | 4.000  |     | 25 |
| 33061                       | .02   | 3.000  |       |     | 16.500 |     | 25 | 33092                       | 1.00   | 14.35  | 3.000 | 9.300   | 4.600  |     | 25 |
| 33062                       | 2.23  | .950   |       |     | 3.100  |     | 25 | 33093                       | 12.49  | 17.59  | 2.850 | 4.100   | 2.200  |     | 25 |
| 33063                       | 1.09  | .930   |       |     | 3.200  |     | 25 | 33094                       | 95.39  | 17.32  | 2.920 | 1.080   | .560   |     | 25 |
| 33064                       | .40   | 1.000  |       |     | 3.400  |     | 25 | 33095                       | 143.45 | 17.21  | 2.940 | .760    | .430   |     | 25 |
| 33065                       | .13   | 1.000  |       |     | 3.600  |     | 25 | 33096                       | .11    | .11    | .940  | 9.600   | 3.700  |     | 25 |
| 33066                       | .03   | 1.000  |       |     | 3.700  |     | 25 | 33097                       | 1.01   | .10    | .980  | 9.800   | 2.800  |     | 25 |
| 33067                       | .02   | 3.000  |       |     | 15.500 |     | 25 | 33098                       | 10.45  | .10    | 1.010 | 4.500   | 1.000  |     | 25 |
| 33068                       | .33   | 3.000  |       |     | 13.900 |     | 25 | 33099                       | 104.52 | .12    | 1.000 | 1.000   | -.160  |     | 25 |
| 33069                       | .09   | 3.000  |       |     | 14.200 |     | 25 | 34000                       | 152.03 | .11    | 1.000 | .750    | -.100  |     | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (FRANCE) (10) |        |        |       |        |       |     |    | SOURCE-NUMBERS (FRANCE) (11) |        |        |       |        |       |     |    |
|------------------------------|--------|--------|-------|--------|-------|-----|----|------------------------------|--------|--------|-------|--------|-------|-----|----|
| SOURCE                       | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU  | D-H | T  | SOURCE                       | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU  | D-H | T  |
| 34001                        | .09    | 1.00   | .990  | 9.000  | 3.800 |     | 25 | 34032                        | .89    | 4.70   | .470  | -3.700 | 1.000 |     | 25 |
| 34002                        | 1.00   | 1.21   | .970  | 8.900  | 2.800 |     | 25 | 34033                        | 9.64   | 3.75   | .500  | 2.800  | .800  |     | 25 |
| 34003                        | 9.00   | 1.06   | 1.000 | 4.700  | 1.600 |     | 25 | 34034                        | 100.02 | 4.80   | .500  | 1.000  | .250  |     | 25 |
| 34004                        | 99.54  | 1.08   | 1.000 | 1.050  | .260  |     | 25 | 34035                        | 153.50 | 5.00   | .500  | .720   | .200  |     | 25 |
| 34005                        | 147.39 | 1.09   | 1.010 | .760   | .220  |     | 25 | 34036                        | .09    | 9.58   | .480  | 3.300  | 1.180 |     | 25 |
| 34006                        | .08    | 4.16   | .970  | 7.400  | 3.100 |     | 25 | 34037                        | 1.61   | 9.48   | .460  | 3.100  | .960  |     | 25 |
| 34007                        | 1.11   | 5.17   | .960  | 7.400  | 2.400 |     | 25 | 34038                        | 8.86   | 8.45   | .490  | 2.800  | .840  |     | 25 |
| 34008                        | 8.45   | 3.39   | 1.010 | 4.500  | 1.680 |     | 25 | 34039                        | 100.02 | 10.74  | .490  | 1.000  | .270  |     | 25 |
| 34009                        | 98.59  | 5.29   | 1.000 | 1.050  | .340  |     | 25 | 34040                        | 149.34 | 10.00  | .490  | .730   | .180  |     | 25 |
| 34010                        | 148.05 | 5.89   | 1.000 | .760   | .280  |     | 25 | 34041                        | .09    | 18.70  | .480  | 3.100  | 1.230 |     | 25 |
| 34011                        | .10    | 8.77   | .970  | 5.700  | 2.600 |     | 25 | 34042                        | .92    | 17.93  | .520  | 3.000  | 1.350 |     | 25 |
| 34012                        | 1.00   | 8.50   | .930  | 6.500  | 2.200 |     | 25 | 34043                        | 8.03   | 17.65  | .550  | 3.100  | .980  |     | 25 |
| 34013                        | 9.73   | 8.31   | .980  | 4.100  | 1.360 |     | 25 | 34044                        | 94.49  | 19.64  | .550  | 1.050  | .280  |     | 25 |
| 34014                        | 95.47  | 10.10  | .980  | 1.100  | .310  |     | 25 | 34045                        | 142.88 | 19.55  | .560  | .770   | .220  |     | 25 |
| 34015                        | 145.47 | 9.91   | .990  | .790   | .230  |     | 25 | 34046                        | 4.89   |        | 1.000 | 5.333  |       |     | 25 |
| 34016                        | .09    | 17.41  | .970  | 6.800  | 2.200 |     | 25 | 34047                        | 9.97   |        | 1.000 | 4.082  |       |     | 25 |
| 34017                        | .81    | 18.82  | 1.030 | 4.200  | 1.700 |     | 25 | 34048                        | 23.66  |        | 1.000 | 2.697  |       |     | 25 |
| 34018                        | 11.81  | 19.21  | .930  | 3.200  | 1.270 |     | 25 | 34049                        | 47.41  |        | 1.000 | 1.783  |       |     | 25 |
| 34019                        | 99.02  | 18.42  | .960  | 1.000  | .380  |     | 25 | 34050                        | 71.51  |        | 1.000 | 1.331  |       |     | 25 |
| 34020                        | 145.70 | 18.33  | .960  | .740   | .300  |     | 25 | 34051                        | 95.82  |        | 1.000 | 1.074  |       |     | 25 |
| 34021                        | .11    | .10    | .500  | 3.600  | 1.100 |     | 25 | 34052                        | 146.72 |        | 1.000 | .755   |       |     | 25 |
| 34022                        | .87    | .10    | .490  | -3.800 | .900  |     | 25 | 34053                        | 4.33   |        | 2.000 | 9.630  |       |     | 25 |
| 34023                        | 10.78  | .08    | .520  | 2.700  | .800  |     | 25 | 34054                        | 9.70   |        | 2.000 | 6.330  |       |     | 25 |
| 34024                        | 101.87 | .11    | .530  | .970   | -.130 |     | 25 | 34055                        | 20.80  |        | 2.000 | 3.841  |       |     | 25 |
| 34025                        | 150.58 | 1.05   | .520  | .720   | -.100 |     | 25 | 34056                        | 46.61  |        | 2.000 | 2.032  |       |     | 25 |
| 34026                        | .10    | .90    | .500  | 3.900  | 1.340 |     | 25 | 34057                        | 72.81  |        | 2.000 | 1.435  |       |     | 25 |
| 34027                        | 1.25   | 1.00   | .470  | 3.200  | 1.080 |     | 25 | 34058                        | 97.12  |        | 2.000 | 1.119  |       |     | 25 |
| 34028                        | 11.11  | 1.05   | .500  | 2.700  | .800  |     | 25 | 34059                        | 146.92 |        | 2.000 | .770   |       |     | 25 |
| 34029                        | 100.02 | .93    | .510  | 1.000  | .300  |     | 25 | 34060                        | 3.96   |        | 3.000 | 12.922 |       |     | 25 |
| 34030                        | 152.80 | 1.10   | .510  | .720   | .200  |     | 25 | 34061                        | 9.61   |        | 3.000 | 7.419  |       |     | 25 |
| 34031                        | .09    | 4.67   | .490  | 2.700  | 1.200 |     | 25 | 34062                        | 19.70  |        | 3.000 | 4.406  |       |     | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (FRANCE) (12) |        |        |       |        |      |     |    | SOURCE-NUMBERS (FRANCE) (13) |        |        |       |        |      |     |    |
|------------------------------|--------|--------|-------|--------|------|-----|----|------------------------------|--------|--------|-------|--------|------|-----|----|
| SOURCE                       | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU | D-H | T  | SOURCE                       | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU | D-H | T  |
| 34063                        | 46.31  |        | 3.000 | 2.197  |      |     | 25 | 34095                        | 150.35 |        | 3.000 | .741   |      |     | 35 |
| 34064                        | 73.21  |        | 3.000 | 1.469  |      |     | 25 | 34096                        | 2.45   |        | 4.000 | 16.240 |      |     | 35 |
| 34065                        | 96.92  |        | 3.000 | 1.141  |      |     | 25 | 34097                        | 11.31  |        | 4.000 | 6.655  |      |     | 35 |
| 34066                        | 147.62 |        | 3.000 | .764   |      |     | 25 | 34098                        | 21.78  |        | 4.000 | 4.054  |      |     | 35 |
| 34067                        | 3.72   |        | 4.000 | 15.161 |      |     | 25 | 34099                        | 43.21  |        | 4.000 | 2.290  |      |     | 35 |
| 34068                        | 9.61   |        | 4.000 | -9.886 |      |     | 25 | 35000                        | 74.28  |        | 4.000 | 1.420  |      |     | 35 |
| 34069                        | 19.40  |        | 4.000 | 4.624  |      |     | 25 | 35001                        | 98.57  |        | 4.000 | 1.110  |      |     | 35 |
| 34070                        | 46.61  |        | 4.000 | 2.215  |      |     | 25 | 35002                        | 150.35 |        | 4.000 | .740   |      |     | 35 |
| 34071                        | 73.11  |        | 4.000 | 1.482  |      |     | 25 | 35003                        | 5.64   |        | 1.000 | 3.990  |      |     | 50 |
| 34072                        | 96.92  |        | 4.000 | 1.142  |      |     | 25 | 35004                        | 12.52  |        | 1.000 | 2.944  |      |     | 50 |
| 34073                        | 147.62 |        | 4.000 | .765   |      |     | 25 | 35005                        | 28.86  |        | 1.000 | 2.063  |      |     | 50 |
| 34075                        | 5.36   |        | 1.000 | 4.620  |      |     | 35 | 35006                        | 49.28  |        | 1.000 | 1.585  |      |     | 50 |
| 34076                        | 11.24  |        | 1.000 | 3.585  |      |     | 35 | 35007                        | 76.42  |        | 1.000 | 1.176  |      |     | 50 |
| 34077                        | 25.71  |        | 1.000 | 2.450  |      |     | 35 | 35008                        | 101.04 |        | 1.000 | .978   |      |     | 50 |
| 34078                        | 43.09  |        | 1.000 | 1.796  |      |     | 35 | 35009                        | 149.28 |        | 1.000 | .729   |      |     | 50 |
| 34079                        | 72.71  |        | 1.000 | 1.263  |      |     | 35 | 35010                        | 4.12   |        | 2.000 | 7.820  |      |     | 50 |
| 34080                        | 98.09  |        | 1.000 | 1.016  |      |     | 35 | 35011                        | 12.48  |        | 2.000 | 4.696  |      |     | 50 |
| 34081                        | 149.04 |        | 1.000 | .731   |      |     | 35 | 35012                        | 26.43  |        | 2.000 | 2.884  |      |     | 50 |
| 34082                        | 3.50   |        | 2.000 | 9.690  |      |     | 35 | 35013                        | 49.04  |        | 2.000 | 1.850  |      |     | 50 |
| 34083                        | 10.98  |        | 2.000 | 5.600  |      |     | 35 | 35014                        | 76.52  |        | 2.000 | 1.301  |      |     | 50 |
| 34084                        | 23.21  |        | 2.000 | 3.400  |      |     | 35 | 35015                        | 101.66 |        | 2.000 | 1.032  |      |     | 50 |
| 34085                        | 42.71  |        | 2.000 | 2.145  |      |     | 35 | 35016                        | 149.28 |        | 2.000 | .742   |      |     | 50 |
| 34086                        | 73.33  |        | 2.000 | 1.402  |      |     | 35 | 35017                        | 3.21   |        | 3.000 | 11.450 |      |     | 50 |
| 34087                        | 101.18 |        | 2.000 | 1.045  |      |     | 35 | 35018                        | 13.12  |        | 3.000 | 5.164  |      |     | 50 |
| 34088                        | 149.99 |        | 2.000 | .742   |      |     | 35 | 35019                        | 25.81  |        | 3.000 | 3.200  |      |     | 50 |
| 34089                        | 2.67   |        | 3.000 | 14.340 |      |     | 35 | 35020                        | 50.00  |        | 3.000 | 1.962  |      |     | 50 |
| 34090                        | 11.00  |        | 3.000 | 6.530  |      |     | 35 | 35021                        | 76.52  |        | 3.000 | 1.335  |      |     | 50 |
| 34091                        | 21.90  |        | 3.000 | 3.910  |      |     | 35 | 35022                        | 102.37 |        | 3.000 | 1.036  |      |     | 50 |
| 34092                        | 42.85  |        | 3.000 | 2.256  |      |     | 35 | 35023                        | 149.28 |        | 3.000 | .745   |      |     | 50 |
| 34093                        | 73.33  |        | 3.000 | 1.420  |      |     | 35 | 35024                        | 3.10   |        | 4.000 | 12.400 |      |     | 50 |
| 34094                        | 97.61  |        | 3.000 | 1.113  |      |     | 35 | 35025                        | 13.36  |        | 4.000 | 5.380  |      |     | 50 |



DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (FRANCE) (14) |        |        |       |        |        |     |    | SOURCE-NUMBERS (FRANCE) (15) |        |        |       |       |        |     |    |
|------------------------------|--------|--------|-------|--------|--------|-----|----|------------------------------|--------|--------|-------|-------|--------|-----|----|
| SOURCE                       | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU   | D-H | T  | SOURCE                       | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU   | D-H | T  |
| 35026                        | 25.31  |        | 4.000 | 3.316  |        |     | 50 | 37016                        | 10.24  | .02    | 4.000 |       | 3.900  |     | 22 |
| 35027                        | 50.62  |        | 4.000 | 1.930  |        |     | 50 | 37017                        | 25.00  | .02    | 4.000 |       | 2.100  |     | 22 |
| 35028                        | 76.66  |        | 4.000 | 1.350  |        |     | 50 | 37018                        | 109.99 | .02    | 4.000 |       | .660   |     | 22 |
| 35029                        | 103.45 |        | 4.000 | 1.025  |        |     | 50 | 37019                        | .71    | .02    | 4.500 |       | 18.000 |     | 22 |
| 35030                        | 148.80 |        | 4.000 | .752   |        |     | 50 | 37020                        | 1.43   | .02    | 4.500 |       | 14.100 |     | 22 |
| 35031                        |        |        | .095  | -.349  |        |     | 25 | 37021                        | 5.95   | .02    | 4.500 |       | 6.000  |     | 22 |
| 35032                        |        |        | .095  | -.399  |        |     | 25 | 37022                        | 9.52   | .02    | 4.500 |       | 4.500  |     | 22 |
| 35033                        |        |        | .095  | -.432  |        |     | 25 | 37023                        | 23.57  | .02    | 4.500 |       | 2.300  |     | 22 |
| 35034                        |        |        | .095  | -.470  |        |     | 25 | 37024                        | 109.52 | .02    | 4.500 |       | .720   |     | 22 |
| 35035                        |        |        | .500  | 2.686  |        |     | 25 | 37025                        | 81.19  | .02    | 3.000 |       | .620   |     | 22 |
| 35036                        |        |        | .500  | 2.683  |        |     | 25 | 37031                        | 9.52   |        | .500  | 2.850 |        |     | 25 |
| 35037                        |        |        | .500  | 2.654  |        |     | 25 | 37032                        | 23.80  |        | .500  | 2.070 |        |     | 25 |
| 35038                        |        |        | 1.000 | 7.209  |        |     | 25 | 37033                        | 54.75  |        | .500  | 1.413 |        |     | 25 |
| 35039                        |        |        | 1.000 | 7.185  |        |     | 25 | 37034                        | 77.84  |        | .500  | 1.187 |        |     | 25 |
| 35040                        |        |        | 3.000 | 23.067 |        |     | 25 | 37035                        | 95.22  |        | .500  | 1.015 |        |     | 25 |
| 35041                        |        |        | 3.000 | 24.571 |        |     | 25 | 37036                        | 19.04  |        | .010  | .500  |        |     | 25 |
| 37001                        | 1.67   | .02    | 2.000 |        | 4.300  |     | 22 | 37037                        | 23.80  |        | .010  | .700  |        |     | 25 |
| 37002                        | 3.10   | .02    | 2.000 |        | 3.300  |     | 22 | 37038                        | 28.56  |        | .010  | .758  |        |     | 25 |
| 37003                        | 11.43  | .02    | 2.000 |        | -1.400 |     | 22 | 37039                        | 38.09  |        | .010  | .937  |        |     | 25 |
| 37004                        | 17.38  | .02    | 2.000 |        | 1.000  |     | 22 | 37040                        | 40.47  |        | .010  | .941  |        |     | 25 |
| 37005                        | 37.38  | .02    | 2.000 |        | -.530  |     | 22 | 37041                        | 49.99  |        | .010  | 1.010 |        |     | 25 |
| 37006                        | 123.33 | .02    | 2.000 |        | -.180  |     | 22 | 37042                        | 59.51  |        | .010  | 1.000 |        |     | 25 |
| 37007                        | 1.19   | .02    | 3.000 |        | 8.500  |     | 22 | 37043                        | 83.31  |        | .010  | .934  |        |     | 25 |
| 37008                        | 2.14   | .02    | 3.000 |        | 6.600  |     | 22 |                              |        |        |       |       |        |     |    |
| 37009                        | 8.33   | .02    | 3.000 |        | 3.100  |     | 22 |                              |        |        |       |       |        |     |    |
| 37010                        | 12.62  | .02    | 3.000 |        | 2.400  |     | 22 |                              |        |        |       |       |        |     |    |
| 37011                        | 29.28  | .02    | 3.000 |        | 1.500  |     | 22 |                              |        |        |       |       |        |     |    |
| 37012                        | 113.56 | .02    | 3.000 |        | .380   |     | 22 |                              |        |        |       |       |        |     |    |
| 37013                        | .95    | .02    | 4.000 |        | 14.800 |     | 22 |                              |        |        |       |       |        |     |    |
| 37014                        | 1.67   | .02    | 4.000 |        | 11.900 |     | 22 |                              |        |        |       |       |        |     |    |
| 37015                        | 6.43   | .02    | 4.000 |        | 5.400  |     | 22 |                              |        |        |       |       |        |     |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

| SOURCE-NUMBERS (USSR) (1) |       |        |       |        |        |       |    | SOURCE-NUMBERS (USSR) (2) |        |        |       |       |      |       |    |
|---------------------------|-------|--------|-------|--------|--------|-------|----|---------------------------|--------|--------|-------|-------|------|-------|----|
| SOURCE                    | U-AQU | PU-AQU | H-AQU | D-U    | D-PU   | D-H   | T  | SOURCE                    | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  |
| 40001                     |       | .02    | 2.020 |        | 7.647  | .223  | 26 | 40032                     | 36.01  | 2.68   | 1.940 | 2.500 | .899 | -.072 | 26 |
| 40002                     |       | .15    | 2.020 |        | 6.753  | .218  | 26 | 40033                     | 40.01  | 11.20  | 1.930 | 2.125 | .652 | .062  | 26 |
| 40003                     |       | .69    | 2.070 |        | 7.536  | -.188 | 26 | 40034                     | 36.01  | 17.40  | 2.020 | 2.083 | .885 | .064  | 26 |
| 40004                     |       | 1.44   | 2.040 |        | 6.458  | .206  | 26 | 40035                     | 50.01  | 43.70  | 1.910 | 1.580 | .600 | .052  | 26 |
| 40005                     |       | 4.33   | 2.050 |        | 5.058  | .176  | 26 | 40036                     | 53.01  | 72.70  | 2.010 | 1.283 | .568 | .050  | 26 |
| 40006                     |       | 5.90   | 2.090 |        | 5.169  | .153  | 26 | 40037                     | 82.01  |        | 2.020 | 1.293 |      | -.050 | 26 |
| 40007                     |       | 7.10   | 2.040 |        | 4.535  | .147  | 26 | 40038                     | 80.01  | .11    | 1.970 | 1.337 | .395 | -.056 | 26 |
| 40008                     |       | 8.50   | 2.000 |        | 4.118  | .145  | 26 | 40039                     | 84.01  | .47    | 2.000 | 1.262 | .362 | -.055 | 26 |
| 40009                     | .41   |        | 1.970 | 17.073 |        | .218  | 26 | 40040                     | 82.01  | 3.11   | 1.980 | 1.256 | .457 | -.056 | 26 |
| 40010                     | .43   | .16    | 2.070 | 14.884 | 6.125  | .198  | 26 | 40041                     | 85.01  | 10.70  | 2.030 | 1.176 | .439 | -.054 | 26 |
| 40011                     | .50   | .80    | 2.030 | 12.200 | 5.750  | .202  | 26 | 40042                     | 87.01  | 19.50  | 2.060 | 1.115 | .462 | -.053 | 26 |
| 40012                     | .54   | 3.40   | 1.990 | 9.444  | 5.676  | .171  | 26 | 40043                     | 87.01  | 40.60  | 2.070 | 1.080 | .429 | .048  | 26 |
| 40013                     | .50   | 4.00   | 2.010 | 10.800 | 5.375  | .154  | 26 | 40044                     | 99.02  | 78.60  | 2.020 | .828  | .394 | .040  | 26 |
| 40014                     | .47   | 8.30   | 1.940 | 8.298  | 3.940  | .139  | 26 | 40045                     | 92.02  | 96.20  | 1.990 | .826  | .436 | .035  | 26 |
| 40015                     | .55   | 10.30  | 2.010 | 6.364  | 4.058  | .109  | 26 | 40046                     | 162.03 |        | 2.010 | .673  |      | -.040 | 26 |
| 40016                     | 2.80  |        | 2.020 | 12.857 |        | .163  | 26 | 40047                     | 166.03 | .12    | 2.000 | .663  | .297 | -.030 | 26 |
| 40017                     | 2.80  | .41    | 2.030 | 12.500 | -1.463 | .148  | 26 | 40048                     | 164.03 | .58    | 2.010 | .659  | .266 | -.035 | 26 |
| 40018                     | 2.80  | .72    | 2.100 | 12.143 | 4.306  | .152  | 26 | 40049                     | 156.03 | 3.18   | 2.090 | .686  | .274 | -.029 | 26 |
| 40019                     | 2.80  | 4.30   | 2.020 | 11.071 | 3.302  | .139  | 26 | 40050                     | 156.03 | 11.00  | 2.010 | .673  | .273 | -.045 | 26 |
| 40020                     | 3.50  | 11.30  | 1.970 | 8.000  | 2.708  | .122  | 26 | 40051                     | 149.03 | 21.80  | 2.080 | .685  | .284 | -.043 | 26 |
| 40021                     | 11.40 |        | 2.020 | 6.316  |        | .099  | 26 | 40052                     | 144.02 | 43.00  | 2.090 | .694  | .314 | -.043 | 26 |
| 40022                     | 12.30 | .16    | 2.030 | 5.366  | 1.575  | .103  | 26 | 40053                     | 165.03 | 74.00  | 2.020 | .582  | .280 | -.045 | 26 |
| 40023                     | 10.90 | .68    | 2.070 | 5.780  | 1.765  | .101  | 26 | 40054                     | 161.03 | 90.00  | 2.020 | .559  | .319 | -.045 | 26 |
| 40024                     | 12.80 | 3.36   | 2.000 | 4.687  | 1.604  | .095  | 26 | 40055                     | 316.05 |        | 2.020 | .370  |      | -.035 | 26 |
| 40025                     | 14.10 | 11.50  | 2.000 | 4.113  | 1.357  | .095  | 26 | 40056                     | 314.05 | .10    | 1.930 | .373  | .194 | -.047 | 26 |
| 40026                     | 16.90 | 18.20  | 2.020 | 3.432  | 1.473  | .089  | 26 | 40057                     | 301.05 | .51    | 2.040 | .392  | .198 | -.049 | 26 |
| 40027                     | 34.51 |        | 2.050 | 2.783  |        | -.078 | 26 | 40058                     | 332.06 | 1.17   | 2.020 | .352  | .206 | -.040 | 26 |
| 40028                     | 24.80 | .10    | 2.050 | 3.669  | 1.162  | .083  | 26 | 40059                     | 324.05 | 3.30   | 2.060 | .358  | .197 | -.034 | 26 |
| 40029                     | 45.91 | .13    | 2.100 | 2.200  | .662   | -.076 | 26 | 40060                     | 330.06 | 10.30  | 1.990 | .348  | .214 | -.035 | 26 |
| 40030                     | 29.40 | .59    | 2.050 | 3.129  |        | -.083 | 26 | 40061                     | 293.05 | 20.60  | 2.020 | .386  | .209 | -.040 | 26 |
| 40031                     | 49.61 | .72    | 2.080 | 2.056  | .639   | -.072 | 26 | 40062                     | 326.05 | 36.90  | 1.880 | .334  | .222 | -.032 | 26 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (USSR) (3) |        |        |       |         |         |       |    | SOURCE-NUMBERS (USSR) (4) |        |        |       |       |        |       |    |
|---------------------------|--------|--------|-------|---------|---------|-------|----|---------------------------|--------|--------|-------|-------|--------|-------|----|
| SOURCE                    | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU    | D-H   | T  | SOURCE                    | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU   | D-H   | T  |
| 40063                     | 303.05 | 78.00  | 1.840 | .323    | .246    | -.038 | 26 | 40094                     | 48.01  | 21.00  | 3.020 | 1.854 | .881   | .046  | 26 |
| 40064                     | 312.05 | 97.20  | 1.780 | .298    | .257    | .028  | 26 | 40095                     | 47.01  | 41.00  | 2.990 | 1.553 | .807   | .037  | 26 |
| 40065                     |        | .01    | 2.970 |         | 12.727  | .199  | 26 | 40096                     | 33.91  | 77.60  | 3.690 | 1.062 | .905   | .024  | 26 |
| 40066                     |        | .12    | 2.990 |         | -10.887 | .197  | 26 | 40097                     | 87.01  |        | 3.070 | 1.299 |        | .029  | 26 |
| 40067                     |        | .50    | 2.980 |         | 12.400  | .185  | 26 | 40098                     | 80.01  | .09    | 3.000 | 1.375 | .624   | .040  | 26 |
| 40068                     |        | .90    | 2.950 |         | 13.333  | .186  | 26 | 40099                     | 78.01  | .56    | 2.970 | 1.385 | .571   | -.051 | 26 |
| 40069                     |        | 2.29   | 3.010 |         | 12.576  | .159  | 26 | 41000                     | 85.01  | 3.41   | 2.980 | 1.235 | .616   | -.044 | 26 |
| 40070                     |        | 2.99   | 3.020 |         | 9.030   | .156  | 26 | 41001                     | 82.01  | 11.30  | 3.000 | 1.256 | .584   | .037  | 26 |
| 40071                     |        | 4.20   | 3.020 |         | 8.333   | .142  | 26 | 41002                     | 81.01  | 20.30  | 2.950 | 1.173 | .581   | .034  | 26 |
| 40072                     | .34    |        | 3.050 | -39.706 |         | .233  | 26 | 41003                     | 82.01  | 42.50  | 2.970 | 1.049 | .548   | .037  | 26 |
| 40073                     | .38    | .12    | 3.010 | 31.579  | 9.500   | .183  | 26 | 41004                     | 82.01  | 74.80  | 3.100 | .841  | .564   | .039  | 26 |
| 40074                     | .58    | .51    | 2.990 | 24.138  | 9.922   | .181  | 26 | 41005                     | 81.01  | 99.40  | 2.930 | .630  | .590   | .024  | 26 |
| 40075                     | .44    | 3.13   | 3.030 | 21.818  | 7.412   | .158  | 26 | 41006                     | 174.03 |        | 2.950 | .667  |        | -.031 | 26 |
| 40076                     | .59    | 5.21   | 3.080 | 12.203  | 7.006   | .127  | 26 | 41007                     | 148.02 | .11    | 3.000 | .743  | .357   | -.033 | 26 |
| 40077                     | .69    | 6.82   | 3.060 | 9.275   | 6.261   | .124  | 26 | 41008                     | 174.03 | .60    | 3.040 | .644  | .392   | -.030 | 26 |
| 40078                     | 3.31   |        | 2.950 | 14.804  |         | .136  | 26 | 41009                     | 176.03 | 3.39   | 3.090 | .636  | .330   | .036  | 26 |
| 40079                     | 3.62   | .11    | 2.980 | 14.890  | 5.310   | .128  | 26 | 41010                     | 161.03 | 10.90  | 3.000 | .665  | .391   | -.037 | 26 |
| 40080                     | 4.70   | .50    | 2.970 | 11.702  | 5.160   | .114  | 26 | 41011                     | 147.02 | 19.50  | 2.950 | .707  | .405   | .027  | 26 |
| 40081                     | 4.60   | 3.09   | 2.970 | 10.870  | 4.595   | .101  | 26 | 41012                     | 159.03 | 39.30  | 3.060 | .679  | .349   | .029  | 26 |
| 40082                     | 5.40   | 9.50   | 3.040 | 7.963   | 3.453   | .079  | 26 | 41013                     | 190.03 | 69.90  | 3.020 | .516  | .288   | .026  | 26 |
| 40083                     | 14.90  |        | 2.950 | 5.973   |         | .078  | 26 | 41014                     | 169.03 | 80.00  | 3.090 | .533  | .374   | .036  | 26 |
| 40084                     | 14.20  | .13    | 3.040 | 6.127   | 2.078   | .079  | 26 | 41015                     | 320.05 |        | 2.950 | .375  |        | -.024 | 26 |
| 40085                     | 13.40  | .53    | 3.010 | 6.343   | 2.129   | .083  | 26 | 41016                     | 294.05 | .08    | 2.940 | .401  | .308   | -.034 | 26 |
| 40086                     | 15.60  | 3.24   | 3.020 | 4.936   | 2.244   | .070  | 26 | 41017                     | 297.05 | 3.11   | 2.800 | .394  | .298   | -.025 | 26 |
| 40087                     | 16.90  | 10.10  | 2.990 | 4.201   | 2.000   | .064  | 26 | 41018                     | 304.05 | 10.70  | 2.930 | .375  | .280   | .024  | 26 |
| 40088                     | 15.60  | 20.40  | 3.000 | 3.635   | 1.848   | .053  | 26 | 41019                     | 304.05 | 21.20  | 2.910 | .355  | .281   | -.041 | 26 |
| 40089                     | 40.61  |        | 3.010 | 2.586   |         | .047  | 26 | 41020                     | 307.05 | 42.70  | 2.860 | .342  | .283   | -.031 | 26 |
| 40090                     | 42.11  | .10    | 3.000 | 2.352   | 1.069   | -.060 | 26 | 41021                     | 296.05 | 76.00  | 2.970 | .318  | .303   | .024  | 26 |
| 40091                     | 36.51  | .48    | 2.950 | 2.630   | 1.104   | .061  | 26 | 41022                     | 284.05 | 96.00  | 2.940 | .313  | .318   | .020  | 26 |
| 40092                     | 42.01  | 3.13   | 3.000 | 2.357   | 1.077   | .053  | 26 | 41023                     |        | .01    | 3.890 |       | 23.586 | .198  | 26 |
| 40093                     | 35.01  | 10.60  | 3.020 | 2.686   | .896    | .040  | 26 | 41024                     |        | .13    | 3.980 |       | 17.597 | .188  | 26 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (USSR) (5) |       |        |       |        |        |       |    | SOURCE-NUMBERS (USSR) (6) |        |        |       |       |       |       |    |
|---------------------------|-------|--------|-------|--------|--------|-------|----|---------------------------|--------|--------|-------|-------|-------|-------|----|
| SOURCE                    | U-AQU | PU-AQU | H-AQU | D-U    | D-PU   | D-H   | T  | SOURCE                    | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  |
| 41025                     |       | .45    | 3.940 |        | 19.111 | .183  | 26 | 41056                     | 79.01  | .12    | 4.050 | 1.443 | .800  | .027  | 26 |
| 41026                     |       | .98    | 3.930 |        | 17.041 | .165  | 26 | 41057                     | 77.01  | .50    | 4.070 | 1.429 | .780  | -.042 | 26 |
| 41027                     |       | 1.77   | 4.010 |        | 14.124 | .167  | 26 | 41058                     | 86.01  | 2.91   | 4.040 | 1.279 | .808  | -.040 | 26 |
| 41028                     |       | 2.60   | 4.000 |        | 12.692 | .147  | 26 | 41059                     | 74.01  | 10.14  | 4.080 | 1.365 | .801  | .037  | 26 |
| 41029                     |       | 3.26   | 3.990 |        | 11.350 | .148  | 26 | 41060                     | 86.01  | 21.80  | 4.090 | 1.116 | .711  | .034  | 26 |
| 41030                     |       | 3.65   | 4.030 |        | 11.534 | -.104 | 26 | 41061                     | 82.01  | 41.80  | 4.140 | .963  | .689  | .029  | 26 |
| 41031                     |       | 4.30   | 4.050 |        | 9.767  | -.104 | 26 | 41062                     | 160.03 |        | 4.030 | .731  |       | .030  | 26 |
| 41032                     |       | 4.82   | 4.030 |        | 10.373 | -.097 | 26 | 41063                     | 168.03 | .11    | 3.990 | .690  | .452  | .030  | 26 |
| 41033                     |       | 5.90   | 4.070 |        | 9.424  | .108  | 26 | 41064                     | 168.03 | .52    | 3.970 | .685  | .460  | .035  | 26 |
| 41034                     | .74   |        | 3.990 | 28.108 |        | .160  | 26 | 41065                     | 150.03 | 3.12   | 4.060 | .760  | .462  | .034  | 26 |
| 41035                     | .85   | .17    | 4.000 | 24.235 | 13.353 | .158  | 26 | 41066                     | 174.03 | 3.21   | 3.960 | .661  | .421  | .023  | 26 |
| 41036                     | 3.50  |        | 4.040 | 14.686 |        | .114  | 26 | 41067                     | 160.03 | 10.00  | 4.010 | .662  | .480  | .032  | 26 |
| 41037                     | 4.50  | .12    | 3.950 | 12.956 | 7.016  | .109  | 26 | 41068                     | 171.03 | 10.30  | 3.980 | .626  | .398  | .030  | 26 |
| 41038                     | 3.50  | .47    | 3.990 | 13.771 | 7.115  | .115  | 26 | 41069                     | 156.03 | 18.30  | 4.000 | .660  | .464  | .028  | 26 |
| 41039                     | 2.40  | 2.42   | 3.940 | 13.833 | 8.512  | .117  | 26 | 41070                     | 176.03 | 33.00  | 3.800 | .557  | .339  | .032  | 26 |
| 41040                     | 2.40  | 8.01   | 4.050 | 9.208  | 5.980  | .079  | 26 | 41071                     | 159.03 | 40.20  | 3.950 | .591  | .493  | .023  | 26 |
| 41041                     | 15.90 |        | 4.030 | 5.849  |        | .060  | 26 | 41072                     | 195.03 | 69.00  | 3.950 | .431  | .435  | .028  | 26 |
| 41042                     | 15.90 | .14    | 4.020 | 5.786  | 2.083  | .060  | 26 | 41073                     | 160.03 | 75.40  | 4.110 | .481  | .503  | .019  | 26 |
| 41043                     | 16.90 | .69    | 4.050 | 5.148  | 2.275  | .059  | 26 | 41074                     | 296.05 |        | 3.910 | .402  |       | .031  | 26 |
| 41044                     | 19.50 | 3.70   | 4.050 | 4.103  | 2.730  | .054  | 26 | 41075                     | 294.05 | .10    | 3.940 | .401  | .371  | -.033 | 26 |
| 41045                     | 13.60 | 8.40   | 4.030 | 4.706  | 2.560  | .065  | 26 | 41076                     | 294.05 | .49    | 3.820 | .398  | .355  | -.031 | 26 |
| 41046                     | 19.90 | 17.00  | 3.960 | 3.116  | 1.500  | .051  | 26 | 41077                     | 299.05 | 3.15   | 3.890 | .378  | .340  | -.033 | 26 |
| 41047                     | 9.50  | 17.90  | 4.150 | 4.632  | 2.626  | .053  | 26 | 41078                     | 297.05 | 10.00  | 4.000 | .364  | .360  | -.035 | 26 |
| 41048                     | 43.01 |        | 3.980 | 2.512  |        | .050  | 26 | 41079                     | 297.05 | 19.20  | 3.890 | .357  | .365  | -.033 | 26 |
| 41049                     | 42.01 | .11    | 4.030 | 2.548  | 1.496  | .047  | 26 | 41080                     | 306.05 | 39.40  | 3.880 | .337  | .365  | .026  | 26 |
| 41050                     | 40.01 | .55    | 4.020 | 2.650  | 1.273  | .050  | 26 | 41081                     | 290.05 | .52    | 2.890 | .410  | .283  | -.031 | 26 |
| 41051                     | 40.01 | 3.22   | 3.990 | 2.425  | 1.289  | .050  | 26 | 42001                     |        | .63    | .990  |       | 2.730 | .202  | 25 |
| 41052                     | 46.01 | 12.60  | 3.990 | 1.891  | 1.071  | .043  | 26 | 42002                     |        | 2.27   | .990  |       | 2.555 | .202  | 25 |
| 41053                     | 36.01 | 21.30  | 4.140 | 2.139  | 1.164  | .041  | 26 | 42003                     |        | 5.73   | 1.000 |       | 2.565 | .170  | 25 |
| 41054                     | 35.01 | 39.20  | 4.200 | 1.686  | 1.135  | .040  | 26 | 42004                     |        | 8.30   | 1.010 |       | 2.313 | .168  | 25 |
| 41055                     | 84.01 |        | 3.960 | 1.357  |        | .038  | 26 | 42005                     |        | 13.80  | 1.200 |       | 2.174 | .125  | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

| SOURCE-NUMBERS (USSR) (7) |        |        |       |       |       |       |    | SOURCE-NUMBERS (USSR) (8) |        |        |       |        |       |       |    |
|---------------------------|--------|--------|-------|-------|-------|-------|----|---------------------------|--------|--------|-------|--------|-------|-------|----|
| SOURCE                    | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T  | SOURCE                    | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU  | D-H   | T  |
| 42006                     |        | 17.60  | 1.080 |       | 2.091 | .139  | 25 | 42037                     | 3.80   |        | .510  | 2.974  |       | .157  | 25 |
| 42007                     | 3.81   |        | .990  | 6.037 |       | .182  | 25 | 42038                     | 4.50   | 2.57   | .540  | -2.333 | .938  | -.204 | 25 |
| 42008                     | 3.02   | 4.37   | 1.040 | 6.755 | 1.911 | .163  | 25 | 42039                     | 4.30   | 18.90  | .510  | 3.488  | .905  | .137  | 25 |
| 42009                     | 5.60   | 10.80  | .950  | 4.821 | 1.370 | .147  | 25 | 42040                     | 3.90   | 34.50  | .550  | 2.564  | 1.003 | .127  | 25 |
| 42010                     | 3.50   | 22.80  | 1.010 | 3.857 | 1.447 | .119  | 25 | 42041                     | 17.10  |        | .500  | 2.135  |       | -.140 | 25 |
| 42011                     | 15.00  |        | 1.010 | 3.667 |       | .129  | 25 | 42042                     | 16.70  | 3.19   | .610  | 2.024  | .549  | -.066 | 25 |
| 42012                     | 14.50  | 5.60   | 1.030 | 3.862 | .802  | .126  | 25 | 42043                     | 16.50  | 22.10  | .490  | 2.273  | .652  | .122  | 25 |
| 42013                     | 14.20  | 18.00  | .980  | 3.380 | .867  | .102  | 25 | 42044                     | 12.80  | 33.70  | .540  | 2.211  | .766  | .130  | 25 |
| 42014                     | 14.00  | 35.10  | 1.050 | 2.857 | .846  | .086  | 25 | 42045                     | 48.01  |        | .480  | 1.402  |       | -.167 | 25 |
| 42015                     | 40.01  |        | .980  | 1.925 |       | -.102 | 25 | 42046                     | 43.51  | 3.62   | .440  | 1.414  | .272  | -.182 | 25 |
| 42016                     | 40.41  | 5.03   | 1.040 | 1.881 | .457  | -.106 | 25 | 42047                     | 41.21  | 24.00  | .540  | 1.578  | .438  | -.111 | 25 |
| 42017                     | 35.01  | 38.00  | 1.040 | 1.800 | .571  | .067  | 25 | 42048                     | 35.11  | 38.40  | .490  | 1.681  | .440  | -.184 | 25 |
| 42018                     | 81.51  |        | .960  | 1.202 |       | -.094 | 25 | 42049                     | 95.62  |        | .490  | .952   |       | -.143 | 25 |
| 42019                     | 83.31  | 3.85   | 1.010 | 1.176 | .312  | -.089 | 25 | 42050                     | 85.51  | 3.59   | .510  | 1.099  | .212  | -.157 | 25 |
| 42020                     | 77.51  | 49.60  | 1.000 | 1.110 | .341  | .060  | 25 | 42051                     | 81.01  | 24.50  | .520  | 1.111  | .293  | -.115 | 25 |
| 42021                     | 78.01  | 111.00 | .930  | .872  | .323  | .065  | 25 | 42052                     | 81.01  | 42.40  | .550  | 1.049  | .274  | -.109 | 25 |
| 42022                     | 163.03 |        | .990  | .681  |       | -.091 | 25 | 42053                     | 169.03 |        | .470  | .675   |       | -.170 | 25 |
| 42023                     | 164.03 | 3.35   | 1.000 | .671  | .218  | -.080 | 25 | 42054                     | 169.03 | 3.26   | .500  | .645   | .144  | -.160 | 25 |
| 42024                     | 149.03 | 48.20  | 1.020 | .658  | .249  | -.049 | 25 | 42055                     | 154.03 | 3.28   | .510  | .695   | .165  | -.118 | 25 |
| 42025                     | 155.03 | 112.00 | .990  | .510  | .207  | -.071 | 25 | 42056                     | 164.03 | 37.90  | .470  | .628   | .201  | -.106 | 25 |
| 42026                     | 330.06 |        | .990  | .358  |       | -.071 | 25 | 42057                     | 172.03 | 82.00  | .610  | .581   | .171  | -.115 | 25 |
| 42027                     | 320.05 | 3.16   | 1.030 | .359  | .165  | -.049 | 25 | 42058                     | 322.05 |        | .490  | .373   |       | -.143 | 25 |
| 42028                     | 310.05 | 51.00  | .980  | .342  | .179  | -.061 | 25 | 42059                     | 349.06 | 3.10   | .500  | .332   | .123  | -.140 | 25 |
| 42029                     | 320.05 | 93.00  | .940  | .319  | .159  | -.074 | 25 | 42060                     | 289.05 | 3.43   | .490  | .374   | .133  | -.122 | 25 |
| 42030                     |        | .45    | .520  |       | 1.033 | .154  | 25 | 42061                     | 314.05 | 40.00  | .450  | .363   | .143  | -.111 | 25 |
| 42031                     |        | 1.41   | .520  |       | 1.121 | .154  | 25 | 42062                     | 336.06 | 83.10  | .700  | .313   | .146  | -.114 | 25 |
| 42032                     |        | 4.28   | .530  |       | 1.119 | .151  | 25 | 42063                     |        | .47    | .320  |        | .418  | .156  | 25 |
| 42033                     |        | 13.60  | .520  |       | 1.257 | .154  | 25 | 42064                     |        | 1.90   | .300  |        | .475  | -.200 | 25 |
| 42034                     |        | 19.60  | .510  |       | 1.082 | .137  | 25 | 42065                     |        | 5.41   | .290  |        | .444  | .138  | 25 |
| 42035                     |        | 33.50  | .510  |       | 1.125 | .118  | 25 | 42066                     |        | 9.26   | .300  |        | .515  | .133  | 25 |
| 42036                     |        | 43.70  | .520  |       | 1.121 | .115  | 25 | 42067                     |        | 16.60  | .310  |        | .753  | .194  | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (USSR) (9) |        |        |       |       |      |       |    | SOURCE-NUMBERS (USSR) (10) |        |        |       |       |        |       |    |
|---------------------------|--------|--------|-------|-------|------|-------|----|----------------------------|--------|--------|-------|-------|--------|-------|----|
| SOURCE                    | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  | SOURCE                     | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU   | D-H   | T  |
| 42068                     |        | 29.50  | .340  |       | .885 | .176  | 25 | 42099                      | 34.01  | 18.40  | .250  | 1.318 | .268   | -.160 | 25 |
| 42069                     |        | 32.70  | .370  |       | .948 | .135  | 25 | 43000                      | 79.01  |        | .120  | .914  |        | -.250 | 25 |
| 42070                     | 5.20   |        | .310  | 1.692 |      | .129  | 25 | 43001                      | 80.01  | 5.24   | .160  | .956  | .127   | -.313 | 25 |
| 42071                     | 3.30   | 9.90   | .300  | 2.030 | .535 | .167  | 25 | 43002                      | 72.01  | 20.70  | .180  | 1.042 | .203   | -.222 | 25 |
| 42072                     | 3.00   | 27.40  | .320  | 2.267 | .723 | .188  | 25 | 43003                      | 140.02 |        | .120  | .700  |        | -.333 | 25 |
| 42073                     | 46.41  |        | .260  | 1.304 |      | -.192 | 25 | 43004                      | 160.03 | 5.09   | .160  | .644  | .102   | -.250 | 25 |
| 42074                     | 42.51  | 10.20  | .310  | 1.388 | .304 | -.161 | 25 | 43005                      | 152.03 | 18.00  | .170  | .651  | .126   | -.235 | 25 |
| 42075                     | 37.01  | 37.20  | .320  | 1.478 | .409 | -.156 | 25 | 43006                      | 286.05 |        | .120  | .399  |        | -.417 | 25 |
| 42076                     | 90.02  |        | .280  | .944  |      | -.214 | 25 | 43007                      | 290.05 | 5.79   | .170  | .393  | .061   | -.294 | 25 |
| 42077                     | 80.01  | 11.20  | .310  | 1.037 | .215 | -.161 | 25 | 43008                      | 295.05 | 17.40  | .200  | .393  | .098   | -.200 | 25 |
| 42078                     | 79.01  | 25.00  | .320  | 1.025 | .240 | -.156 | 25 | 43011                      |        | .09    | .950  |       | -1.125 | .211  | 25 |
| 42079                     | 82.01  | 37.60  | .330  | .976  | .263 | -.152 | 25 | 43012                      |        | .48    | 1.030 |       | -1.147 | .204  | 25 |
| 42080                     | 165.03 |        | .260  | .630  |      | -.269 | 25 | 43013                      |        | .92    | 1.000 |       | -1.076 | .200  | 25 |
| 42081                     | 146.02 | 3.14   | .290  | .705  | .157 | -.172 | 25 | 43014                      |        | 2.75   | 1.150 |       | -1.236 | .191  | 25 |
| 42082                     | 117.02 | 10.20  | .290  | .803  | .165 | -.138 | 25 | 43015                      |        | 7.50   | 1.410 |       | -1.413 | .191  | 25 |
| 42083                     | 146.02 | 10.60  | .310  | .671  | .160 | -.161 | 25 | 43016                      |        | 11.50  | .980  |       | -1.235 | .163  | 25 |
| 42084                     | 140.02 | 29.00  | .300  | .721  | .152 | -.200 | 25 | 43017                      |        | 18.80  | .910  |       | -1.128 | .121  | 25 |
| 42085                     | 147.02 | 39.50  | .310  | .687  | .177 | -.161 | 25 | 43018                      |        | 37.70  | .750  |       | 1.061  | .067  | 25 |
| 42086                     | 345.06 |        | .290  | .330  |      | -.207 | 25 | 43019                      |        | .10    | 1.990 |       | -2.552 | .211  | 25 |
| 42087                     | 287.05 | 3.92   | .290  | .397  | .117 | -.172 | 25 | 43020                      |        | .48    | 1.970 |       | -2.479 | .223  | 25 |
| 42088                     | 232.04 | 10.00  | .260  | .478  | .124 | -.192 | 25 | 43021                      |        | .93    | 1.920 |       | -2.430 | .219  | 25 |
| 42089                     | 301.05 | 10.50  | .320  | .369  | .123 | -.156 | 25 | 43022                      |        | 2.72   | 2.020 |       | -2.500 | -.223 | 25 |
| 42090                     | 297.05 | 40.80  | .330  | .377  | .123 | -.152 | 25 | 43023                      |        | 9.60   | 1.880 |       | -2.323 | .165  | 25 |
| 42091                     |        | 1.38   | .160  |       | .130 | .125  | 25 | 43024                      |        | 13.20  | 1.670 |       | -1.735 | .180  | 25 |
| 42092                     |        | 3.30   | .160  |       | .125 | -.063 | 25 | 43025                      |        | 20.40  | 1.890 |       | -1.819 | .111  | 25 |
| 42093                     | 3.40   |        | .150  | .735  |      | -.133 | 25 | 43026                      |        | 22.95  | 1.690 |       | -1.786 | .160  | 25 |
| 42094                     | 4.60   | 5.00   | .160  | 1.043 | .156 | .125  | 25 | 43027                      |        | 29.00  | 1.930 |       | 1.690  | .114  | 25 |
| 42095                     | 13.20  |        | .150  | .909  |      | -.333 | 25 | 43028                      |        | 30.30  | 1.940 |       | 1.587  | .113  | 25 |
| 42096                     | 14.30  | 4.77   | .170  | 1.224 | .205 | -.176 | 25 | 43029                      |        | 40.30  | 2.330 |       | 1.588  | .099  | 25 |
| 42097                     | 42.31  |        | .140  | 1.057 |      | -.214 | 25 | 43030                      |        | .09    | 2.930 |       | -4.267 | .218  | 25 |
| 42098                     | 41.11  | 4.60   | .160  | 1.148 | .165 | -.250 | 25 | 43031                      |        | .44    | 2.940 |       | -3.750 | .218  | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

| SOURCE-NUMBERS (USSR) (11) |        |        |       |        |        |      |    | SOURCE-NUMBERS (USSR) (12) |        |        |       |       |      |     |    |
|----------------------------|--------|--------|-------|--------|--------|------|----|----------------------------|--------|--------|-------|-------|------|-----|----|
| SOURCE                     | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU   | D-H  | T  | SOURCE                     | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H | T  |
| 43032                      |        | .85    | 3.030 |        | -3.756 | .215 | 25 | 48031                      | 60.71  |        | .500  | 1.333 |      |     | 25 |
| 43033                      |        | 2.63   | 3.070 |        | -3.802 | .199 | 25 | 48032                      | 96.66  |        | .500  | 1.032 |      |     | 25 |
| 43034                      |        | 4.80   | 3.370 |        | -3.396 | .172 | 25 | 48033                      | 17.28  |        | 1.000 | 3.154 |      |     | 25 |
| 43035                      |        | 7.90   | 2.530 |        | -2.797 | .182 | 25 | 48034                      | 41.90  |        | 1.000 | 1.977 |      |     | 25 |
| 43036                      |        | 9.10   | 3.360 |        | -3.516 | .167 | 25 | 48035                      | 94.28  |        | 1.000 | 1.008 |      |     | 25 |
| 43037                      |        | 10.00  | 2.800 |        | -3.280 | .143 | 25 | 48036                      | 10.14  |        | 2.000 | 6.056 |      |     | 25 |
| 43038                      |        | 10.20  | 3.080 |        | -2.710 | .162 | 25 | 48037                      | 50.71  |        | 2.000 | 1.967 |      |     | 25 |
| 43039                      |        | 14.20  | 3.100 |        | -2.606 | .145 | 25 | 48038                      | 85.47  |        | 2.000 | 1.298 |      |     | 25 |
| 43040                      |        | 17.90  | 2.630 |        | -2.503 | .152 | 25 | 48039                      | 121.18 |        | 2.000 | .961  |      |     | 25 |
| 43041                      |        | 21.50  | 3.060 |        | -2.186 | .118 | 25 | 48040                      | 280.93 |        | 2.000 | .426  |      |     | 25 |
| 43042                      |        | 22.80  | 2.820 |        | -2.412 | .085 | 25 |                            |        |        |       |       |      |     |    |
| 43043                      |        | 34.80  | 2.650 |        | -1.555 | .094 | 25 |                            |        |        |       |       |      |     |    |
| 43044                      |        | .09    | 3.760 |        | -5.233 | .207 | 25 |                            |        |        |       |       |      |     |    |
| 43045                      |        | .42    | 3.980 |        | -5.048 | .191 | 25 |                            |        |        |       |       |      |     |    |
| 43046                      |        | .85    | 3.940 |        | -4.929 | .188 | 25 |                            |        |        |       |       |      |     |    |
| 43047                      |        | 2.53   | 3.990 |        | -4.427 | .185 | 25 |                            |        |        |       |       |      |     |    |
| 43048                      |        | 4.70   | 4.230 |        | -4.277 | .163 | 25 |                            |        |        |       |       |      |     |    |
| 43049                      |        | 8.40   | 3.830 |        | -4.167 | .120 | 25 |                            |        |        |       |       |      |     |    |
| 43050                      |        | 9.17   | 4.170 |        | -3.708 | .151 | 25 |                            |        |        |       |       |      |     |    |
| 43051                      |        | 11.40  | 4.200 |        | -3.132 | .129 | 25 |                            |        |        |       |       |      |     |    |
| 43052                      |        | 16.60  | 4.300 |        | -2.777 | .116 | 25 |                            |        |        |       |       |      |     |    |
| 48021                      | 225.94 |        | .050  | .526   |        |      | 25 |                            |        |        |       |       |      |     |    |
| 48022                      | 75.71  |        | .050  | 1.025  |        |      | 25 |                            |        |        |       |       |      |     |    |
| 48023                      | 58.57  |        | .050  | .935   |        |      | 25 |                            |        |        |       |       |      |     |    |
| 48024                      | 35.95  |        | .050  | .947   |        |      | 25 |                            |        |        |       |       |      |     |    |
| 48025                      | 23.33  |        | .050  | .898   |        |      | 25 |                            |        |        |       |       |      |     |    |
| 48026                      | 16.90  |        | .100  | -1.310 |        |      | 25 |                            |        |        |       |       |      |     |    |
| 48027                      | 35.00  |        | .100  | -1.313 |        |      | 25 |                            |        |        |       |       |      |     |    |
| 48028                      | 60.47  |        | .100  | 1.220  |        |      | 25 |                            |        |        |       |       |      |     |    |
| 48029                      | 10.24  |        | .500  | -1.721 |        |      | 25 |                            |        |        |       |       |      |     |    |
| 48030                      | 21.90  |        | .500  | -1.880 |        |      | 25 |                            |        |        |       |       |      |     |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (GERMANY) (1) |       |        |       |       |        |      |    | SOURCE-NUMBERS (GERMANY) (2) |       |        |       |     |        |     |    |
|------------------------------|-------|--------|-------|-------|--------|------|----|------------------------------|-------|--------|-------|-----|--------|-----|----|
| SOURCE                       | U-AQU | PU-AQU | H-AQU | D-U   | D-PU   | D-H  | T  | SOURCE                       | U-AQU | PU-AQU | H-AQU | D-U | D-PU   | D-H | T  |
| 50001                        |       |        | .020  |       |        | .025 | 25 | 51024                        |       | 4.52   | 2.600 |     | 6.450  |     | 25 |
| 50002                        | 15.90 |        | .020  | .403  |        | .025 | 25 | 51025                        |       | 10.30  | 2.600 |     | -2.900 |     | 25 |
| 50003                        |       |        | .080  |       |        | .063 | 25 | 51026                        |       | 1.98   | 2.620 |     | 7.730  |     | 25 |
| 50004                        | 16.00 |        | .080  | -.419 |        | .063 | 25 | 51027                        |       | .36    | 2.600 |     | 9.150  |     | 25 |
| 50005                        |       |        | .170  |       |        | .088 | 25 | 51028                        |       | .07    | 2.520 |     | -8.000 |     | 25 |
| 50006                        | 25.00 |        | .120  | .892  |        | .083 | 25 | 51029                        |       | 7.10   | 2.700 |     | 6.300  |     | 25 |
| 50007                        | 14.59 |        | .020  | .274  |        | .025 | 60 | 51030                        |       | .09    | 2.700 |     | 10.500 |     | 25 |
| 50008                        | 15.40 |        | .080  | -.221 |        | .063 | 60 | 51031                        |       | 19.36  | 3.060 |     | 2.600  |     | 25 |
| 50009                        | 24.76 |        | .160  | .919  |        | .063 | 60 | 51032                        |       | 16.97  | 3.060 |     | 3.640  |     | 25 |
| 51001                        |       | 2.37   | 2.700 |       | 9.700  |      | 25 | 51033                        |       | 6.45   | 2.850 |     | -4.420 |     | 25 |
| 51002                        |       | 1.12   | 2.700 |       | 10.500 |      | 25 | 51034                        |       | 5.26   | 2.850 |     | 6.000  |     | 25 |
| 51003                        |       | .09    | 2.700 |       | 10.500 |      | 25 | 51035                        |       | 1.82   | 2.760 |     | 8.410  |     | 25 |
| 51004                        |       | .01    | 2.700 |       | 11.000 |      | 25 | 51036                        |       | .37    | 2.700 |     | 8.600  |     | 25 |
| 51005                        |       |        | 2.700 |       | 11.200 |      | 25 | 51037                        |       | .07    | 2.650 |     | -7.520 |     | 25 |
| 51006                        |       | 5.74   | 1.500 |       | 4.200  |      | 25 | 51038                        |       | 18.88  | 1.560 |     | 2.920  |     | 25 |
| 51007                        |       | 2.17   | 1.470 |       | 5.000  |      | 25 | 51039                        |       | 21.75  | 1.560 |     | 2.360  |     | 25 |
| 51008                        |       | .15    | 1.500 |       | 5.100  |      | 25 | 51040                        |       | 11.64  | 1.510 |     | -2.320 |     | 25 |
| 51009                        |       | .02    | 1.500 |       | 5.000  |      | 25 | 51041                        |       | 12.50  | 1.510 |     | -2.200 |     | 25 |
| 51010                        |       |        | 1.500 |       | 4.900  |      | 25 | 51042                        |       | 5.59   | 1.450 |     | -2.500 |     | 25 |
| 51011                        |       | 5.58   | .610  |       | 1.300  |      | 25 | 51043                        |       | 5.19   | 1.450 |     | 2.830  |     | 25 |
| 51012                        |       | .44    | .600  |       | 1.300  |      | 25 | 51044                        |       | .72    | 1.430 |     | 4.060  |     | 25 |
| 51013                        |       | .04    | .600  |       | 1.500  |      | 25 | 51045                        |       | .13    | 1.400 |     | 5.080  |     | 25 |
| 51014                        |       |        | .600  |       | 1.400  |      | 25 | 51046                        |       | 17.90  | 1.430 |     | 2.410  |     | 25 |
| 51015                        |       | 5.31   | .400  |       | .590   |      | 25 | 51047                        |       | 7.10   | 1.410 |     | 3.220  |     | 25 |
| 51017                        |       | 3.92   | .200  |       | -.080  |      | 25 | 51048                        |       | 3.30   | 1.350 |     | 3.700  |     | 25 |
| 51018                        |       | .09    | .200  |       | .080   |      | 25 | 51049                        |       | .55    | 1.320 |     | 4.750  |     | 25 |
| 51019                        |       | .01    | .200  |       | .090   |      | 25 | 51050                        |       | .15    | 1.250 |     | 4.270  |     | 25 |
| 51020                        |       | 2.06   | .100  |       | .030   |      | 25 | 51051                        |       | 4.70   | 1.500 |     | 4.280  |     | 25 |
| 51021                        |       | 2.10   | .100  |       | -.010  |      | 25 | 51052                        |       | 1.80   | 1.500 |     | 4.550  |     | 25 |
| 51022                        |       | 12.91  | 2.600 |       | 4.760  |      | 25 | 51053                        |       | 19.90  | .600  |     | 1.280  |     | 25 |
| 51023                        |       | 16.16  | 2.600 |       | 3.700  |      | 25 | 51055                        |       | 9.80   | .600  |     | 1.320  |     | 25 |



DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (GERMANY) (3) |        |        |       |        |       |      |    | SOURCE-NUMBERS (GERMANY) (4) |        |        |       |        |        |       |    |
|------------------------------|--------|--------|-------|--------|-------|------|----|------------------------------|--------|--------|-------|--------|--------|-------|----|
| SOURCE                       | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU  | D-H  | T  | SOURCE                       | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU   | D-H   | T  |
| 51056                        |        | 4.54   | .600  |        | 1.450 |      | 25 | 52018                        | 2.46   |        | 3.125 | 18.106 |        | .141  | 25 |
| 51057                        |        | 1.04   | .600  |        | 1.420 |      | 25 | 52019                        | 22.30  |        | 3.920 | 4.469  |        | .047  | 25 |
| 51058                        |        | .89    | .600  |        | 1.560 |      | 25 | 52020                        | 39.46  |        | 3.980 | 2.687  |        | .035  | 25 |
| 51060                        |        | 14.51  | .300  |        | -.240 |      | 25 | 52021                        | 59.21  |        | 3.920 | 1.875  |        | .028  | 25 |
| 51061                        |        | 7.41   | .300  |        | -.190 |      | 25 | 52022                        | 77.56  |        | 3.990 | 1.457  |        | .025  | 25 |
| 51062                        |        | .88    | .300  |        | -.260 |      | 25 | 52023                        | 99.77  |        | 4.045 | 1.163  |        | .022  | 25 |
| 51071                        | 7.14   |        | 3.000 | 10.000 |       |      | 25 | 52024                        | 121.02 |        | 3.980 | .959   |        | .020  | 25 |
| 51072                        | 21.67  |        | 2.998 | 4.400  |       |      | 25 | 52025                        | 1.86   |        | 4.515 | 24.328 |        | -.026 | 25 |
| 51073                        | 29.76  |        | 2.496 | 3.200  |       |      | 25 | 52026                        | 20.55  |        | 4.930 | 4.783  |        | .045  | 25 |
| 51074                        | 2.62   |        | 1.997 | -9.100 |       |      | 25 | 52027                        | 37.71  |        | 4.970 | 2.785  |        | .034  | 25 |
| 51075                        | 36.66  |        | 1.998 | 2.600  |       |      | 25 | 52028                        | 56.01  |        | 5.115 | 1.946  |        | .028  | 25 |
| 51076                        | 41.43  |        | .487  | 1.700  |       |      | 25 | 52029                        | 78.01  |        | 5.005 | 1.429  |        | .024  | 25 |
| 51077                        | 26.66  |        | .305  | 1.800  |       |      | 25 | 52030                        | 102.02 |        | 5.010 | 1.108  |        | .022  | 25 |
| 51078                        | 39.05  |        | .048  | 1.200  |       |      | 25 | 52031                        | 123.52 |        | 4.970 | .935   |        | .021  | 25 |
| 52001                        | 1.68   |        | 1.700 | 13.452 |       | .182 | 25 | 52041                        | 1.63   |        | 1.848 | 13.350 |        | .180  | 25 |
| 52002                        | 26.90  |        | 1.920 | 3.431  |       | .054 | 25 | 52042                        | 121.28 |        | 3.143 | 1.010  |        | .020  | 25 |
| 52003                        | 43.91  |        | 1.910 | 2.278  |       | .042 | 25 | 52043                        | 21.28  |        | 4.005 | 4.590  |        | .050  | 25 |
| 52004                        | 60.81  |        | 1.950 | 1.743  |       | .036 | 25 | 52051                        |        |        | 1.805 |        |        | .233  | 25 |
| 52005                        | 81.66  |        | 1.945 | 1.359  |       | .031 | 25 | 52052                        |        |        | 2.670 |        |        | .217  | 25 |
| 52006                        | 102.52 |        | 1.975 | 1.107  |       | .026 | 25 | 52053                        |        |        | 3.615 |        |        | .210  | 25 |
| 52007                        | 125.52 |        | 1.970 | .920   |       | .024 | 25 | 52054                        |        |        | 3.965 |        |        | .204  | 25 |
| 52008                        | 3.73   |        | 2.205 | 12.225 |       | .139 | 25 | 52055                        |        |        | 4.585 |        |        | .194  | 25 |
| 52009                        | 59.01  |        | 2.460 | 1.847  |       | .035 | 25 | 52056                        |        |        | 5.655 |        |        | .173  | 25 |
| 52010                        | 101.52 |        | 2.465 | 1.118  |       | .025 | 25 | 53001                        | .06    |        | 1.715 | 14.324 | -4.091 | .233  | 25 |
| 52011                        | 1.11   |        | 2.565 | 20.315 |       | .181 | 25 | 53002                        | .05    | .14    | 1.735 | 15.764 | 6.487  | .233  | 25 |
| 52012                        | 23.10  |        | 2.830 | 4.171  |       | .055 | 25 | 53003                        | .62    | .15    | 1.770 | 15.121 | 5.318  | .212  | 25 |
| 52013                        | 37.86  |        | 2.865 | 2.748  |       | .042 | 25 | 53004                        | 2.52   | .18    | 1.780 | -8.290 | 3.845  | .185  | 25 |
| 52014                        | 57.51  |        | 2.945 | 1.904  |       | .033 | 25 | 53005                        | 5.54   | .23    | 1.815 | 7.389  | 2.966  | .149  | 25 |
| 52015                        | 77.61  |        | 2.940 | 1.443  |       | .028 | 25 | 53006                        | 8.37   | .28    | 1.860 | 7.316  | 2.587  | .108  | 25 |
| 52016                        | 99.82  |        | 2.995 | 1.142  |       | .024 | 25 | 53007                        | 14.65  | .41    | 1.915 | 5.314  | 1.454  | .078  | 25 |
| 52017                        | 121.52 |        | 2.995 | .947   |       | .023 | 25 | 53008                        | 24.85  | .53    | 1.940 | 3.555  | .816   | .052  | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

SOURCE-NUMBERS (GERMANY) (5)

SOURCE-NUMBERS (GERMANY) (6)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU    | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU  | D-H   | T  |
|--------|-------|--------|-------|---------|---------|-------|----|--------|-------|--------|-------|---------|-------|-------|----|
| 53009  | 40.86 | .62    | 2.038 | 2.392   | .647    | .044  | 25 | 53052  | 1.05  | .11    | 2.675 | 22.333  | 8.155 | .183  | 25 |
| 53010  | 48.56 | .93    | .310  | 1.415   | .260    | .058  | 25 | 53053  | 3.90  | .16    | 2.770 | 10.872  | 6.280 | .144  | 25 |
| 53011  | 24.40 | .38    | 3.060 | 3.984   | 1.458   | .048  | 25 | 53054  | 7.26  | .20    | 2.720 | 8.292   | 3.687 | .114  | 25 |
| 53012  | 21.65 | .34    | 3.515 | 4.499   | 1.777   | .048  | 25 | 53055  | 5.09  | .24    | 2.960 | -15.506 | 3.698 | -.084 | 25 |
| 53013  | 21.60 | .34    | 4.080 | 4.519   | 2.109   | .046  | 25 | 53056  | 9.92  | .20    | 2.965 | 8.276   | 4.022 | .083  | 25 |
| 53014  | .99   | .79    | .285  | 1.283   | .253    | .123  | 25 | 53057  | 10.10 | .46    | 2.920 | 8.020   | 3.391 | .079  | 25 |
| 53015  | .13   | .05    | 2.600 | -10.423 | -15.688 | .219  | 25 | 53058  | 11.00 | 1.26   | 2.830 | 7.391   | 3.230 | .078  | 25 |
| 53016  | .23   | .09    | 3.045 | -5.378  | 9.348   | .217  | 25 | 53059  | 11.30 | 2.66   | 2.715 | 6.973   | 2.729 | .070  | 25 |
| 53017  | .03   | .05    | 3.550 | 28.033  | 18.000  | .213  | 25 | 53061  |       | 7.10   | 1.470 |         | 3.783 | .204  | 25 |
| 53018  | .02   | 4.85   | 1.890 | -1.735  | 4.016   | .180  | 25 | 53062  |       | 3.26   | 2.820 |         | 8.788 | .174  | 25 |
| 53019  | .02   | 2.55   | 2.725 | -2.031  | 8.451   | .178  | 25 | 53063  |       |        | .290  |         |       | -.010 | 25 |
| 53021  | 1.03  | .71    | .285  | -.859   | -.463   | .123  | 25 | 53064  |       |        | 2.940 |         |       | .220  | 25 |
| 53022  | .15   | .07    | 2.600 | -4.303  | -18.819 | .219  | 25 | 54002  |       | 13.80  | .113  |         | .201  | -.221 | 25 |
| 53023  | .23   | .10    | 3.045 | -2.467  | 11.168  | .217  | 25 | 54003  |       | 10.10  | .080  |         | .074  | -.188 | 25 |
| 53024  | .11   | 4.53   | 1.890 | -.643   | 4.260   | .180  | 25 | 54004  |       | 7.12   | .088  |         | .052  | .136  | 25 |
| 53031  | .39   | .84    | .270  | 1.649   | .243    | -.157 | 25 | 54005  |       | 3.98   | .112  |         | .088  | .107  | 25 |
| 53032  | .05   | .14    | 2.580 | -18.481 | -6.517  | .240  | 25 | 54006  |       | 2.56   | .106  |         | .060  | .085  | 25 |
| 53033  | .03   | .07    | 3.040 | 32.339  | 13.333  | .230  | 25 | 54007  |       | 1.87   | .112  |         | .059  | .098  | 25 |
| 53034  | .07   | .10    | 3.545 | -14.329 | -9.417  | .214  | 25 | 54008  |       | .94    | .106  |         | .032  | .094  | 25 |
| 53035  | .03   | 2.28   | 2.610 | -11.538 | 9.190   | .192  | 25 | 54009  |       | 17.75  | .178  |         | .368  | .185  | 25 |
| 53041  | .94   |        | .055  | .102    |         |       | 25 | 54010  |       | 13.70  | .166  |         | .242  | .175  | 25 |
| 53042  | 4.11  |        | .052  | .242    |         |       | 25 | 54011  |       | 9.12   | .172  |         | .171  | .151  | 25 |
| 53043  | 7.36  |        | .053  | .376    |         |       | 25 | 54012  |       | 4.92   | .215  |         | .321  | .144  | 25 |
| 53044  | 13.15 |        | .052  | .546    |         |       | 25 | 54013  |       | 3.10   | .193  |         | .217  | .114  | 25 |
| 53045  | 22.40 |        | .051  | .808    |         |       | 25 | 54014  |       | 1.96   | .163  |         | -.173 | -.141 | 25 |
| 53046  | 38.96 |        | .050  | 1.083   |         |       | 25 | 54015  |       | 1.66   | .203  |         | .193  | .108  | 25 |
| 53047  | 48.76 |        | .048  | 1.086   |         |       | 25 | 54016  |       | .72    | .298  |         | .347  | .111  | 25 |
| 53048  | 57.46 |        | .050  | 1.115   |         |       | 25 | 54019  |       | 7.58   | .438  |         | 1.159 | .189  | 25 |
| 53049  | .04   | .08    | 2.545 | 27.394  | 11.724  | .230  | 25 | 54020  |       | 5.02   | .396  |         | .960  | .179  | 25 |
| 53050  | .31   | .12    | 2.585 | -15.738 | 7.884   | .222  | 25 | 54021  |       | 3.62   | .375  |         | .821  | .165  | 25 |
| 53051  | .36   | .09    | 3.095 | 27.069  | 10.023  | .178  | 25 | 54022  |       | 2.29   | .352  |         | .621  | .153  | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

| SOURCE-NUMBERS (GERMANY) (7) |       |        |       |     |        |       |    | SOURCE-NUMBERS (GERMANY) (8) |       |        |       |     |        |     |    |
|------------------------------|-------|--------|-------|-----|--------|-------|----|------------------------------|-------|--------|-------|-----|--------|-----|----|
| SOURCE                       | U-AQU | PU-AQU | H-AQU | D-U | D-PU   | D-H   | T  | SOURCE                       | U-AQU | PU-AQU | H-AQU | D-U | D-PU   | D-H | T  |
| 54023                        |       | 1.29   | .335  |     | .459   | .125  | 25 | 55031                        |       | 31.55  | 3.050 |     | 2.690  |     | 37 |
| 54024                        |       | 1.20   | .378  |     | .621   | .143  | 25 | 55032                        |       | 48.52  | 5.050 |     | 2.000  |     | 37 |
| 54025                        |       | .60    | .375  |     | .579   | .136  | 25 | 55033                        |       | 36.09  | 3.540 |     | 2.384  |     | 37 |
| 55001                        |       | 9.70   | 1.670 |     | 4.015  | .138  | 25 | 55034                        |       | 47.32  | 5.100 |     | 2.000  |     | 37 |
| 55002                        |       | 8.03   | 1.760 |     | 4.643  | .145  | 25 | 55035                        |       | 78.39  | 4.640 |     | 1.293  |     | 40 |
| 55003                        |       | 6.41   | 3.190 |     | 6.866  | -.103 | 25 | 55036                        |       | 62.38  | 3.480 |     | 1.521  |     | 40 |
| 55004                        |       | 6.55   | 4.690 |     | 8.869  | -.061 | 25 | 55037                        |       | 78.39  | 3.810 |     | 1.241  |     | 40 |
| 55005                        |       | 7.22   | 5.190 |     | 9.636  | .067  | 25 | 55038                        |       | 48.28  | 2.300 |     | 1.728  |     | 40 |
| 55006                        |       | 7.34   | 6.790 |     | 9.544  | .052  | 25 | 55041                        |       | 3.27   | 2.940 |     | 9.370  |     | 31 |
| 55007                        |       | 7.74   | 6.990 |     | 8.457  | .050  | 25 | 55042                        |       | 3.08   | 2.880 |     | 9.810  |     | 40 |
| 55008                        |       | 7.93   | 7.490 |     | 8.735  | .054  | 25 | 55043                        |       | 2.72   | 2.870 |     | 11.340 |     | 50 |
| 55011                        |       | 10.66  | 1.970 |     | 4.070  | .160  | 28 | 55044                        |       | 2.55   | 2.870 |     | 11.920 |     | 60 |
| 55012                        |       | 8.13   | 3.240 |     | 6.260  | -.099 | 28 | 55045                        |       | 2.41   | 2.890 |     | 12.400 |     | 70 |
| 55013                        |       | 8.68   | 4.760 |     | 7.190  | -.065 | 28 | 55046                        |       | 5.81   | 2.680 |     | 7.730  |     | 50 |
| 55014                        |       | 9.66   | 6.050 |     | 7.480  | .043  | 28 | 55047                        |       | 5.19   | 2.690 |     | 8.690  |     | 61 |
| 55015                        |       | 10.30  | 7.100 |     | 7.270  | .032  | 28 | 55048                        |       | 4.83   | 2.660 |     | 9.190  |     | 70 |
| 55016                        |       | 13.46  | 2.000 |     | 3.464  | .145  | 31 | 55049                        |       | 4.68   | 2.790 |     | 8.530  |     | 31 |
| 55017                        |       | 10.78  | 3.490 |     | 5.790  | .118  | 31 | 55050                        |       | 4.42   | 2.830 |     | 8.460  |     | 40 |
| 55018                        |       | 12.31  | 4.920 |     | 6.180  | -.053 | 31 | 55051                        |       | 3.92   | 2.810 |     | 9.670  |     | 51 |
| 55019                        |       | 14.60  | 6.970 |     | 5.480  | .034  | 31 | 55052                        |       | 3.75   | 2.780 |     | 9.980  |     | 59 |
| 55020                        |       | 15.27  | 3.880 |     | 4.840  | .095  | 34 | 55053                        |       | 3.49   | 2.830 |     | 10.620 |     | 70 |
| 55021                        |       | 19.50  | 2.740 |     | 3.660  | .091  | 37 | 55054                        |       | 4.68   | 2.850 |     | 8.100  |     | 29 |
| 55022                        |       | 98.47  | 4.560 |     | .794   | .048  | 45 | 55055                        |       | 4.49   | 2.800 |     | 8.420  |     | 35 |
| 55023                        |       | 113.52 | 5.180 |     | .785   | .112  | 45 | 55056                        |       | 4.42   | 2.810 |     | 8.520  |     | 40 |
| 55024                        |       | 50.19  | .360  |     | 1.114  |       | 28 | 55057                        |       | 4.06   | 2.790 |     | 9.190  |     | 46 |
| 55025                        |       | 35.61  | 1.070 |     | -1.164 |       | 28 | 55058                        |       | 3.82   | 2.810 |     | 9.760  |     | 55 |
| 55026                        |       | 50.67  | .640  |     | 1.151  |       | 31 | 55059                        |       | 3.58   | 2.780 |     | 10.440 |     | 64 |
| 55027                        |       | 29.88  | 1.140 |     | 1.608  |       | 31 | 55060                        |       | 2.72   | 2.640 |     | 8.970  |     | 31 |
| 55028                        |       | 20.55  | 2.880 |     | 3.010  | .073  | 34 | 55061                        |       | 2.72   | 2.600 |     | 9.000  |     | 35 |
| 55029                        |       | 19.84  | 3.510 |     | 3.820  |       | 34 | 55062                        |       | 2.46   | 2.610 |     | 9.960  |     | 40 |
| 55030                        |       | 26.05  | 5.120 |     | 3.330  |       | 34 | 55063                        |       | 2.34   | 2.590 |     | 10.490 |     | 46 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

| SOURCE-NUMBERS (GERMANY) (9) |       |        |       |     |        |     |    | SOURCE-NUMBERS (GERMANY) (10) |       |        |       |     |        |     |    |
|------------------------------|-------|--------|-------|-----|--------|-----|----|-------------------------------|-------|--------|-------|-----|--------|-----|----|
| SOURCE                       | U-AQU | PU-AQU | H-AQU | D-U | D-PU   | D-H | T  | SOURCE                        | U-AQU | PU-AQU | H-AQU | D-U | D-PU   | D-H | T  |
| 55064                        |       | 2.25   | 2.660 |     | 10.970 |     | 46 | 55095                         |       | .02    | 2.630 |     | 12.640 |     | 37 |
| 55065                        |       | 2.25   | 2.690 |     | 11.020 |     | 51 | 55096                         |       | .02    | 2.620 |     | 12.990 |     | 45 |
| 55066                        |       | 2.20   | 2.620 |     | 11.210 |     | 55 | 55097                         |       | .02    | 2.610 |     | 15.560 |     | 54 |
| 55067                        |       | 2.17   | 2.640 |     | 11.310 |     | 60 | 55098                         |       | .02    | 2.600 |     | 17.200 |     | 65 |
| 55068                        |       | 2.10   | 2.660 |     | 12.260 |     | 65 | 55099                         |       | .02    | 2.630 |     | 11.520 |     | 31 |
| 55069                        |       | .19    | 2.670 |     | 13.090 |     | 71 | 56000                         |       | .02    | 2.620 |     | 13.760 |     | 40 |
| 55070                        |       | 6.21   | 2.860 |     | 7.140  |     | 35 | 56001                         |       | .02    | 2.610 |     | 14.320 |     | 49 |
| 55071                        |       | 5.90   | 2.860 |     | 7.870  |     | 40 | 56002                         |       | .02    | 2.590 |     | 15.910 |     | 60 |
| 55072                        |       | 5.28   | 2.890 |     | 8.285  |     | 45 | 56003                         |       | .02    | 2.580 |     | 17.100 |     | 69 |
| 55073                        |       | 5.38   | 2.860 |     | 8.350  |     | 56 | 56004                         |       | .02    | 1.340 |     | 5.060  |     | 35 |
| 55074                        |       | 6.33   | 2.870 |     | 6.910  |     | 30 | 56005                         |       | .02    | 1.330 |     | 5.390  |     | 45 |
| 55075                        |       | 6.07   | 2.850 |     | 7.140  |     | 37 | 56006                         |       | .02    | 1.325 |     | 5.920  |     | 55 |
| 55076                        |       | 5.74   | 2.860 |     | 7.780  |     | 42 | 56007                         |       | .02    | 1.320 |     | 6.060  |     | 65 |
| 55077                        |       | 5.71   | 2.900 |     | 7.830  |     | 45 | 56008                         |       | .02    | 1.330 |     | 4.600  |     | 29 |
| 55078                        |       | 5.43   | 2.810 |     | 7.790  |     | 50 | 56009                         |       | .02    | 1.320 |     | 5.170  |     | 40 |
| 55079                        |       | 5.71   | 2.860 |     | 7.860  |     | 50 | 56010                         |       | .02    | 1.320 |     | 5.670  |     | 51 |
| 55080                        |       | 5.57   | 2.850 |     | 7.840  |     | 55 | 56011                         |       | .02    | 1.310 |     | 6.110  |     | 60 |
| 55081                        |       | 5.35   | 2.860 |     | 8.580  |     | 60 | 56012                         |       | .02    | 1.300 |     | 6.770  |     | 70 |
| 55082                        |       | 5.19   | 2.820 |     | 8.520  |     | 66 | 56013                         |       | .02    | .810  |     | 2.160  |     | 30 |
| 55083                        |       | 5.09   | 2.830 |     | 9.650  |     | 71 | 56014                         |       | .02    | .820  |     | 2.130  |     | 39 |
| 55084                        |       | 3.20   | 2.830 |     | 9.610  |     | 37 | 56015                         |       | .02    | .810  |     | 2.020  |     | 50 |
| 55085                        |       | 3.11   | 2.800 |     | 9.920  |     | 40 | 56016                         |       | .02    | .830  |     | 2.200  |     | 62 |
| 55086                        |       | 2.94   | 2.810 |     | 10.340 |     | 46 | 56017                         |       | .02    | .820  |     | 2.120  |     | 70 |
| 55087                        |       | 2.72   | 2.820 |     | 11.010 |     | 55 | 56018                         |       | .02    | .820  |     | 2.200  |     | 35 |
| 55088                        |       | 2.58   | 2.780 |     | 11.790 |     | 65 | 56019                         |       | .02    | .810  |     | 2.150  |     | 45 |
| 55089                        |       | 2.96   | 2.820 |     | 10.530 |     | 47 | 56020                         |       | .02    | .810  |     | 2.440  |     | 55 |
| 55090                        |       | 2.80   | 2.790 |     | 10.930 |     | 52 | 56021                         |       | .02    | .830  |     | 2.284  |     | 64 |
| 55091                        |       | 2.61   | 2.770 |     | 11.720 |     | 56 | 56022                         |       | 7.96   | .740  |     | 1.880  |     | 36 |
| 55092                        |       | 2.58   | 2.760 |     | 11.780 |     | 60 | 56023                         |       | 8.08   | .680  |     | 1.830  |     | 47 |
| 55093                        |       | 2.56   | 2.780 |     | 11.790 |     | 66 | 56024                         |       | 8.48   | .740  |     | 1.710  |     | 56 |
| 55094                        |       | 2.56   | 2.740 |     | 11.720 |     | 71 | 56025                         |       | 8.58   | .750  |     | 1.600  |     | 64 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

| SOURCE-NUMBERS (GERMANY) (11) |       |        |       |       |       |     |    | SOURCE-NUMBERS (GERMANY) (12) |       |        |       |       |       |     |    |
|-------------------------------|-------|--------|-------|-------|-------|-----|----|-------------------------------|-------|--------|-------|-------|-------|-----|----|
| SOURCE                        | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H | T  | SOURCE                        | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H | T  |
| 56026                         |       | 8.03   | .780  |       | 1.890 |     | 30 | 56057                         | 31.90 | 8.13   | 3.870 | 2.380 | 2.230 |     | 40 |
| 56027                         |       | 7.93   | .780  |       | 1.890 |     | 41 | 56058                         | 35.95 | 7.15   | 3.850 | 2.010 | 2.720 |     | 51 |
| 56028                         |       | 7.77   | .780  |       | 1.900 |     | 50 | 56059                         | 39.76 | 6.41   | 3.830 | 1.755 | 3.080 |     | 60 |
| 56029                         |       | 8.13   | .780  |       | 1.770 |     | 60 | 56060                         | 45.00 | 5.95   | 3.820 | 1.470 | 3.330 |     | 70 |
| 56030                         |       | 8.08   | .770  |       | 1.675 |     | 71 | 56061                         | 64.04 | 11.28  | 2.880 | 1.570 | .890  |     | 31 |
| 56031                         |       | 26.29  | .870  |       | 1.530 |     | 31 | 56062                         | 69.28 | 9.54   | 2.860 | 1.390 | 1.130 |     | 40 |
| 56032                         |       | 25.67  | .870  |       | 1.570 |     | 40 | 56063                         | 75.00 | 8.15   | 2.840 | 1.250 | 1.410 |     | 50 |
| 56033                         |       | 25.57  | .860  |       | 1.576 |     | 50 | 56064                         | 79.99 | 7.12   | 2.830 | 1.125 | 1.670 |     | 60 |
| 56034                         |       | 24.62  | .860  |       | 1.600 |     | 60 | 56065                         | 86.18 | 6.26   | 2.820 | 1.020 | 1.950 |     | 70 |
| 56035                         |       | 24.38  | .850  |       | 1.560 |     | 71 | 56066                         | 64.76 | 14.96  | 1.810 | 1.440 | .600  |     | 30 |
| 56036                         |       | 7.05   | 1.410 |       | 3.590 |     | 31 | 56067                         | 68.57 | 13.07  | 1.810 | 1.310 | .790  |     | 41 |
| 56037                         |       | 6.48   | 1.400 |       | 3.960 |     | 40 | 56068                         | 72.85 | 11.28  | 1.800 | 1.174 | 1.060 |     | 50 |
| 56038                         |       | 5.97   | 1.410 |       | 4.380 |     | 50 | 56069                         | 75.71 | 9.94   | 1.795 | 1.074 | 1.265 |     | 59 |
| 56039                         |       | 5.50   | 1.400 |       | 4.650 |     | 60 | 56070                         | 80.71 | 9.06   | 1.785 | .986  | 1.435 |     | 69 |
| 56040                         |       | 5.11   | 1.390 |       | 4.950 |     | 70 | 56071                         | 68.81 | 12.36  | 3.540 | 1.445 | .905  |     | 32 |
| 56041                         |       | 3.92   | 1.440 |       | 4.330 |     | 31 | 56072                         | 74.52 | 10.97  | 3.530 | 1.240 | 1.130 |     | 40 |
| 56042                         |       | 3.58   | 1.430 |       | 4.760 |     | 40 | 56073                         | 78.57 | 9.44   | 3.530 | 1.130 | 1.410 |     | 50 |
| 56043                         |       | 3.25   | 1.430 |       | 5.240 |     | 49 | 56074                         | 83.09 | 8.17   | 3.510 | 1.045 | 1.710 |     | 60 |
| 56044                         |       | 2.89   | 1.420 |       | 5.950 |     | 61 | 56075                         | 87.61 | 7.19   | 3.490 | .950  | 2.070 |     | 70 |
| 56045                         |       | 2.68   | 1.410 |       | 6.380 |     | 69 | 56076                         | 70.47 | 14.20  | 2.060 | 1.360 | .620  |     | 31 |
| 56046                         | 63.09 | 15.32  | 2.540 | 1.470 | .762  |     | 30 | 56077                         | 74.04 | 12.74  | 2.030 | 1.236 | .800  |     | 40 |
| 56047                         | 66.66 | 13.67  | 2.530 | 1.325 | .960  |     | 39 | 56078                         | 77.14 | 10.80  | 2.020 | 1.100 | 1.070 |     | 50 |
| 56048                         | 70.47 | 11.88  | 2.510 | 1.200 | 1.240 |     | 49 | 56079                         | 80.71 | 9.39   | 1.990 | 1.010 | 1.345 |     | 60 |
| 56049                         | 75.23 | 10.28  | 2.500 | 1.064 | 1.520 |     | 59 | 56080                         | 84.76 | 8.25   | 1.990 | .950  | 1.630 |     | 70 |
| 56050                         | 79.16 | 9.27   | 2.480 | .964  | 1.815 |     | 70 | 56081                         | 74.28 | 18.71  | .880  | 1.180 | .432  |     | 31 |
| 56051                         | 67.85 | 13.48  | 3.750 | 1.430 | .970  |     | 32 | 56082                         | 78.09 | 17.21  | .875  | 1.075 | .544  |     | 41 |
| 56052                         | 71.19 | 11.78  | 3.740 | 1.300 | 1.260 |     | 41 | 56083                         | 80.95 | 15.75  | .870  | .980  | .670  |     | 50 |
| 56053                         | 76.19 | 9.97   | 3.720 | 1.150 | 1.630 |     | 51 | 56084                         | 84.76 | 14.27  | .870  | .904  | .816  |     | 59 |
| 56054                         | 79.99 | 8.87   | 3.710 | 1.060 | 1.900 |     | 59 | 56085                         | 88.57 | 12.79  | .860  | .830  | .934  |     | 70 |
| 56055                         | 87.38 | 8.01   | 3.680 | .910  | 2.260 |     | 72 | 56086                         | 67.85 | 7.91   | .810  | 1.284 | .468  |     | 32 |
| 56056                         | 28.09 | 9.20   | 3.880 | 2.810 | 1.920 |     | 31 | 56087                         | 69.76 | 7.24   | .800  | 1.190 | .605  |     | 41 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (GERMANY) (13) |       |        |       |       |       |       | SOURCE-NUMBERS (GERMANY) (14) |        |        |        |       |         |      |      |    |
|-------------------------------|-------|--------|-------|-------|-------|-------|-------------------------------|--------|--------|--------|-------|---------|------|------|----|
| SOURCE                        | U-AQU | PU-AQU | H-AQU | D-U   | D-PU  | D-H   | T                             | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU | D-H  | T  |
| 56088                         | 72.14 | 6.64   | .790  | 1.110 | .686  |       | 50                            | 57119  | 1.74   |        | .850  | 6.437   |      | .176 | 25 |
| 56089                         | 74.76 | 5.93   | .800  | 1.020 | .830  |       | 60                            | 57120  | 3.54   |        | .880  | 5.678   |      | .159 | 25 |
| 56090                         | 77.14 | 5.35   | .795  | .980  | .920  |       | 69                            | 57121  | .02    |        | 1.675 | -5.444  |      | .221 | 25 |
| 56091                         | 66.42 | 7.31   | 3.050 | 1.510 | .884  |       | 31                            | 57122  | .12    |        | 1.620 | 15.806  |      | .216 | 25 |
| 56092                         | 68.33 | 6.43   | 3.050 | 1.430 | 1.090 |       | 39                            | 57123  | .34    |        | 1.640 | 14.765  |      | .213 | 25 |
| 56093                         | 72.38 | 5.47   | 3.030 | 1.284 | 1.396 |       | 49                            | 57124  | .72    |        | 1.640 | 14.361  |      | .201 | 25 |
| 56094                         | 77.38 | 4.59   | 3.015 | 1.154 | 1.770 |       | 62                            | 57125  | 1.44   |        | 1.640 | 13.125  |      | .177 | 25 |
| 56095                         | 80.47 | 4.13   | 3.000 | 1.070 | 2.050 |       | 69                            | 57126  | .07    |        | 2.460 | 27.857  |      | .211 | 25 |
| 56096                         | 61.66 | 8.27   | 1.900 | 1.560 | .656  |       | 31                            | 57127  | .20    |        | 2.490 | 25.650  |      | .205 | 25 |
| 56097                         | 65.71 | 7.27   | 1.890 | 1.426 | .860  |       | 40                            | 57128  | .41    |        | 2.450 | 25.171  |      | .204 | 25 |
| 56098                         | 68.57 | 6.29   | 1.880 | 1.306 | 1.120 |       | 50                            | 57129  | .93    |        | 2.460 | 20.968  |      | .179 | 25 |
| 56099                         | 71.66 | 5.38   | 1.870 | 1.196 | 1.440 |       | 60                            | 57130  | .05    |        | 3.270 | 36.481  |      | .202 | 25 |
| 57000                         | 75.23 | 4.64   | 1.860 | 1.100 | 1.740 |       | 70                            | 57131  | .14    |        | 3.270 | 36.786  |      | .199 | 25 |
| 57101                         | .11   |        | .052  | .093  |       |       | 25                            | 57132  | .23    |        | 3.240 | -45.304 |      | .191 | 25 |
| 57102                         | 2.07  |        | .061  | .198  |       |       | 25                            | 57133  | .94    |        | 3.230 | 20.638  |      | .207 | 25 |
| 57103                         | 4.10  |        | .065  | .315  |       |       | 25                            | 57134  | 22.80  |        | .050  | .759    |      |      | 25 |
| 57104                         | 8.83  |        | .070  | .497  |       |       | 25                            | 57135  | 41.91  |        | .040  | 1.012   |      |      | 25 |
| 57105                         | 11.80 |        | .110  | .786  |       |       | 25                            | 57136  | 20.60  |        | .090  | .883    |      |      | 25 |
| 57106                         | .09   |        | .096  | .271  |       |       | 25                            | 57137  | 42.71  |        | .070  | 1.059   |      |      | 25 |
| 57107                         | 1.60  |        | .102  | .350  |       |       | 25                            | 57138  | 76.11  |        | .050  | .950    |      |      | 25 |
| 57108                         | 3.70  |        | .110  | .516  |       |       | 25                            | 57139  | 104.22 |        | .100  | .860    |      |      | 25 |
| 57109                         | 7.53  |        | .120  | .744  |       |       | 25                            | 57140  | 11.10  |        | .420  | 2.225   |      | .119 | 25 |
| 57110                         | 11.10 |        | .150  | .982  |       |       | 25                            | 57141  | 32.31  |        | .370  | 1.632   |      | .081 | 25 |
| 57111                         | .03   |        | .450  | 2.724 |       | -.311 | 25                            | 57142  | 63.81  |        | .520  | 1.282   |      | .038 | 25 |
| 57112                         | .51   |        | .450  | 3.039 |       | .147  | 25                            | 57143  | 97.62  |        | .380  | .966    |      | .026 | 25 |
| 57113                         | 1.31  |        | .450  | 3.206 |       | .156  | 25                            | 57144  | 6.63   |        | .740  | 3.937   |      | .135 | 25 |
| 57114                         | 3.22  |        | .460  | 3.062 |       | .152  | 25                            | 57145  | 52.91  |        | 1.070 | 1.677   |      | .047 | 25 |
| 57115                         | 5.23  |        | .480  | 3.040 |       | .146  | 25                            | 57146  | 90.32  |        | .980  | 1.140   |      | .031 | 25 |
| 57116                         | .02   |        | .850  | 5.471 |       | .202  | 25                            | 57147  | 3.49   |        | 1.500 | 8.968   |      | .153 | 25 |
| 57117                         | .26   |        | .830  | 6.985 |       | .193  | 25                            | 57148  | 44.41  |        | 2.150 | 2.178   |      | .042 | 25 |
| 57118                         | .70   |        | .850  | 6.714 |       | .188  | 25                            | 57149  | 82.11  |        | 2.280 | 1.326   |      | .026 | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (GERMANY) (15) |       |        |       |         |      |       |    | SOURCE-NUMBERS (GERMANY) (16) |        |        |       |         |      |       |    |
|-------------------------------|-------|--------|-------|---------|------|-------|----|-------------------------------|--------|--------|-------|---------|------|-------|----|
| SOURCE                        | U-AQU | PU-AQU | H-AQU | D-U     | D-PU | D-H   | T  | SOURCE                        | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU | D-H   | T  |
| 57150                         | 2.16  |        | 2.350 | 14.907  |      | .157  | 25 | 57181                         | .08    |        | 3.300 | 38.095  |      | .200  | 25 |
| 57151                         | 10.50 |        | 2.160 | 6.686   |      | .088  | 25 | 57182                         | .42    |        | 2.030 | 20.952  |      | -.261 | 25 |
| 57152                         | 42.21 |        | 3.240 | 2.396   |      | .034  | 25 | 57183                         | .53    |        | 2.570 | 23.019  |      | .198  | 25 |
| 57153                         | 86.81 |        | 2.590 | 1.272   |      | -.015 | 25 | 57184                         | .73    |        | 2.570 | 22.192  |      | .191  | 25 |
| 57154                         | .35   |        | .050  | .088    |      |       | 25 | 57185                         | .25    |        | 2.570 | -35.560 |      | -.261 | 25 |
| 57155                         | .96   |        | .056  | .110    |      |       | 25 | 57186                         | .57    |        | 3.370 | -20.877 |      | .190  | 25 |
| 57156                         | 1.38  |        | .054  | .217    |      |       | 25 | 57187                         | .49    |        | 3.350 | -34.490 |      | .182  | 25 |
| 57157                         | 2.60  |        | .052  | .208    |      |       | 25 | 57188                         | 1.54   |        | 3.090 | 21.429  |      | .159  | 25 |
| 57158                         | .28   |        | .090  | .270    |      |       | 25 | 57189                         | 7.15   |        | 2.740 | 9.566   |      | .099  | 25 |
| 57159                         | .80   |        | .098  | .336    |      |       | 25 | 57190                         | 41.11  |        | 4.520 | 2.470   |      | .033  | 25 |
| 57160                         | 1.26  |        | .095  | .373    |      |       | 25 | 57191                         | 84.31  |        | 4.290 | 1.307   |      | -.205 | 25 |
| 57161                         | 2.25  |        | .093  | .369    |      |       | 25 | 57192                         | .11    |        | .052  | .096    |      |       | 25 |
| 57162                         | .11   |        | .450  | 3.048   |      | .158  | 25 | 57193                         | .09    |        | .098  | .271    |      |       | 25 |
| 57163                         | .46   |        | .470  | -1.732  |      | .155  | 25 | 57194                         | .03    |        | .440  | 2.734   |      | .161  | 25 |
| 57164                         | .41   |        | .460  | 2.951   |      | .152  | 25 | 57195                         | .02    |        | .830  | 5.459   |      | .201  | 25 |
| 57165                         | .74   |        | .450  | 3.203   |      | .151  | 25 | 57196                         | .02    |        | 1.640 | -5.450  |      | .226  | 25 |
| 57166                         | .05   |        | .830  | 7.579   |      | .206  | 25 | 57201                         | 238.99 |        | .320  | .499    |      | .014  | 25 |
| 57167                         | .12   |        | .870  | 7.724   |      | .197  | 25 | 57202                         | 238.99 |        | .234  | .494    |      | -.005 | 25 |
| 57168                         | .22   |        | .840  | 6.409   |      | .202  | 25 | 57203                         | 232.57 |        | .270  | .508    |      |       | 25 |
| 57169                         | .33   |        | .820  | -8.152  |      | .198  | 25 | 57204                         | 236.14 |        | .543  | .490    |      | .012  | 25 |
| 57170                         | .02   |        | 1.670 | 18.644  |      | .220  | 25 | 57205                         | 220.43 |        | .957  | .527    |      | .016  | 25 |
| 57171                         | .06   |        | 1.680 | 16.608  |      | .218  | 25 | 57206                         | 242.09 |        | 2.190 | .485    |      | .015  | 25 |
| 57172                         | .12   |        | 1.660 | -12.500 |      | .223  | 25 | 57207                         | 248.51 |        | 3.080 | .475    |      | .014  | 25 |
| 57173                         | .22   |        | 1.660 | 13.091  |      | -.086 | 25 | 57208                         | 241.37 |        | 4.000 | .477    |      | .015  | 25 |
| 57174                         | .01   |        | 2.300 | -41.667 |      | .242  | 25 | 57209                         | 253.51 |        | .255  | .457    |      | -.007 | 25 |
| 57175                         | .04   |        | 2.550 | 22.624  |      | .216  | 25 | 57210                         | 243.99 |        | .306  | .474    |      | .014  | 25 |
| 57176                         | .09   |        | 2.540 | -17.647 |      | .217  | 25 | 57211                         | 242.32 |        | .311  | .472    |      | .015  | 25 |
| 57177                         | .12   |        | 2.500 | 25.167  |      | .208  | 25 | 57212                         | 176.86 |        | .270  | .612    |      | .020  | 25 |
| 57178                         | .02   |        | 3.380 | 28.125  |      | .211  | 25 | 57213                         | 201.14 |        | .456  | .547    |      | .011  | 25 |
| 57179                         | .03   |        | 3.350 | 29.204  |      | .212  | 25 | 57214                         | 212.09 |        | .386  | .523    |      | -.007 | 25 |
| 57180                         | .08   |        | 3.340 | -18.554 |      | .210  | 25 | 57215                         | 198.76 |        | .806  | .565    |      | .013  | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (GERMANY) (17) |        |        |       |       |      |      |    | SOURCE-NUMBERS (GERMANY) (18) |        |        |       |      |      |       |    |
|-------------------------------|--------|--------|-------|-------|------|------|----|-------------------------------|--------|--------|-------|------|------|-------|----|
| SOURCE                        | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H  | T  | SOURCE                        | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H   | T  |
| 57216                         | 196.14 |        | 1.980 | .581  |      | .016 | 25 | 57247                         | 149.01 |        | .337  | .634 |      | .032  | 60 |
| 57217                         | 184.24 |        | 2.900 | .615  |      | .017 | 25 | 57248                         | 139.49 |        | .493  | .677 |      | .033  | 60 |
| 57218                         | 192.34 |        | 1.247 | .595  |      | .016 | 25 | 57249                         | 141.40 |        | 1.000 | .704 |      | .039  | 60 |
| 57219                         | 137.35 |        | .826  | .761  |      | .021 | 25 | 57250                         | 139.25 |        | 2.020 | .733 |      | .044  | 60 |
| 57220                         | 137.35 |        | .642  | .769  |      | .022 | 25 | 57251                         | 140.21 |        | 2.960 | .728 |      | .038  | 60 |
| 57221                         | 143.06 |        | .521  | .719  |      | .019 | 25 | 57252                         | 139.02 |        | 3.900 | .721 |      | .036  | 60 |
| 57222                         | 140.92 |        | .406  | .726  |      | .021 | 25 | 57253                         | 263.99 |        | .269  | .438 |      | .017  | 40 |
| 57223                         | 141.87 |        | .318  | .715  |      | .018 | 25 | 57254                         | 262.80 |        | .272  | .440 |      | .017  | 40 |
| 57224                         | 143.30 |        | .263  | .698  |      | .016 | 25 | 57255                         | 266.60 |        | .363  | .443 |      | .012  | 40 |
| 57225                         | 145.44 |        | .209  | .687  |      | .022 | 25 | 57256                         | 267.79 |        | .500  | .442 |      | -.009 | 40 |
| 57226                         | 135.92 | 1.980  |       | .785  |      | .020 | 25 | 57257                         | 261.13 |        | .675  | .455 |      | .019  | 40 |
| 57227                         | 136.40 |        | .971  | .777  |      | .019 | 25 | 57258                         | 267.56 |        | 1.050 | .443 |      | .017  | 40 |
| 57228                         | 130.45 | 4.100  |       | .825  |      | .019 | 25 | 57259                         | 267.08 |        | 2.030 | .445 |      | .017  | 40 |
| 57229                         | 107.12 |        | .215  | .856  |      | .023 | 25 | 57260                         | 267.79 |        | 3.030 | .442 |      | .018  | 40 |
| 57230                         | 102.12 |        | .270  | .890  |      | .025 | 25 | 57261                         | 263.75 |        | 3.910 | .442 |      | .019  | 40 |
| 57231                         | 103.07 |        | .314  | .887  |      | .025 | 25 | 57262                         | 154.01 |        | .185  | .665 |      | -.014 | 40 |
| 57232                         | 99.26  |        | .490  | .942  |      | .027 | 25 | 57263                         | 149.73 |        | .689  | .719 |      | .026  | 40 |
| 57233                         | 82.84  |        | .928  | 1.158 |      | .031 | 25 | 57264                         | 152.82 |        | .348  | .687 |      | .022  | 40 |
| 57234                         | 74.74  |        | 2.010 | 1.360 |      | .031 | 25 | 57265                         | 144.25 |        | .460  | .729 |      | .027  | 40 |
| 57235                         | 72.36  |        | 2.980 | 1.431 |      | .029 | 25 | 57266                         | 146.87 |        | 1.025 | .746 |      | .027  | 40 |
| 57236                         | 74.03  |        | 3.880 | 1.424 |      | .025 | 25 | 57267                         | 147.11 |        | 1.970 | .764 |      | .027  | 40 |
| 57237                         | 258.99 |        | .212  | .416  |      | .017 | 60 |                               |        |        |       |      |      |       |    |
| 57238                         | 255.42 |        | .267  | .418  |      | .016 | 60 |                               |        |        |       |      |      |       |    |
| 57239                         | 252.32 |        | .315  | .422  |      | .021 | 60 |                               |        |        |       |      |      |       |    |
| 57240                         | 249.23 |        | .966  | .434  |      | .028 | 60 |                               |        |        |       |      |      |       |    |
| 57241                         | 254.46 |        | .465  | .425  |      | .023 | 60 |                               |        |        |       |      |      |       |    |
| 57242                         | 249.70 |        | 1.940 | .430  |      | .027 | 60 |                               |        |        |       |      |      |       |    |
| 57243                         | 242.09 |        | 2.710 | .441  |      | .030 | 60 |                               |        |        |       |      |      |       |    |
| 57244                         | 249.94 |        | 3.840 | .422  |      | .032 | 60 |                               |        |        |       |      |      |       |    |
| 57245                         | 145.68 |        | .181  | .624  |      | .029 | 60 |                               |        |        |       |      |      |       |    |
| 57246                         | 148.30 |        | .227  | .628  |      | .024 | 60 |                               |        |        |       |      |      |       |    |



DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

| SOURCE-NUMBERS (JAPAN) |       |        |       |     |         |     |    | SOURCE-NUMBERS (BELGIUM) (1) |        |        |       |       |      |       |    |
|------------------------|-------|--------|-------|-----|---------|-----|----|------------------------------|--------|--------|-------|-------|------|-------|----|
| SOURCE                 | U-AQU | PU-AQU | H-AQU | D-U | D-PU    | D-H | T  | SOURCE                       | U-AQU  | PU-AQU | H-AQU | D-U   | D-PU | D-H   | T  |
| 68001                  |       | .05    | .000  |     | -.260   |     | 23 | 70001                        | 44.04  |        | .300  | 1.514 |      | -.300 | 25 |
| 68002                  |       | .05    | .110  |     | -.395   |     | 23 | 70002                        | 61.90  |        | .300  | 1.308 |      | -.300 | 25 |
| 68003                  |       | .04    | .310  |     | -.608   |     | 23 | 70003                        | 27.38  |        | 1.500 | 2.957 |      | .073  | 25 |
| 68004                  |       | .04    | .510  |     | .837    |     | 23 | 70004                        | 52.38  |        | 1.500 | 1.864 |      | -.073 | 25 |
| 68005                  |       | .02    | .980  |     | -1.980  |     | 23 | 70005                        | 40.47  |        | .300  | -.776 |      | .050  | 55 |
| 68006                  |       | .01    | 1.970 |     | 5.510   |     | 23 | 70006                        | 59.52  |        | .300  | -.880 |      | -.017 | 55 |
| 68007                  |       | .01    | 2.970 |     | -9.200  |     | 23 | 70007                        | 76.19  |        | .300  | 1.020 |      | -.008 | 55 |
| 68008                  |       | .01    | 3.930 |     | -15.400 |     | 23 | 70008                        | 53.33  |        | 1.000 | -.357 |      | -.100 | 55 |
| 68009                  |       |        | 4.890 |     | 22.100  |     | 23 | 70009                        | 72.85  |        | 1.000 | -.556 |      | .075  | 55 |
| 68010                  |       |        | 5.920 |     | 24.500  |     | 23 | 70010                        | 89.99  |        | 1.000 | -.714 |      | .050  | 55 |
| 68011                  |       |        | 6.900 |     | 39.400  |     | 23 | 70011                        | 52.85  |        | 1.500 | -.306 |      | -.097 | 55 |
| 68012                  |       |        | 7.870 |     | -49.500 |     | 23 | 70012                        | 72.61  |        | 1.500 | -.492 |      | -.077 | 55 |
| 68013                  |       |        | 8.870 |     | 34.000  |     | 23 | 70013                        | 86.90  |        | 1.500 | -.712 |      | .063  | 55 |
| 68014                  |       |        | 9.870 |     | 20.200  |     | 23 | 70014                        | 50.23  |        | 2.000 | -.313 |      | -.100 | 55 |
|                        |       |        |       |     |         |     |    | 70015                        | 75.23  |        | 2.000 | -.418 |      | -.075 | 55 |
|                        |       |        |       |     |         |     |    | 70016                        | 89.28  |        | 2.000 | -.635 |      | .047  | 55 |
|                        |       |        |       |     |         |     |    | 70017                        | 52.38  |        | .300  | 1.120 |      | -.300 | 55 |
|                        |       |        |       |     |         |     |    | 70018                        | 71.42  |        | .300  | 1.000 |      | -.300 | 55 |
|                        |       |        |       |     |         |     |    | 70019                        | 30.95  |        | 1.500 | 2.540 |      | .073  | 55 |
|                        |       |        |       |     |         |     |    | 70020                        | 57.14  |        | 1.500 | 1.625 |      | .073  | 55 |
|                        |       |        |       |     |         |     |    | 70021                        | 22.14  |        | .120  | -.580 |      | -.333 | 40 |
|                        |       |        |       |     |         |     |    | 70022                        | 41.43  |        | .121  | .839  |      | -.190 | 40 |
|                        |       |        |       |     |         |     |    | 70023                        | 60.95  |        | .116  | .922  |      | -.224 | 40 |
|                        |       |        |       |     |         |     |    | 70024                        | 86.66  |        | .110  | .854  |      | -.230 | 40 |
|                        |       |        |       |     |         |     |    | 70025                        | 108.80 |        | .108  | .825  |      | -.250 | 40 |
|                        |       |        |       |     |         |     |    | 70026                        | 5.24   |        | 1.060 | 4.730 |      | .156  | 40 |
|                        |       |        |       |     |         |     |    | 70027                        | 12.86  |        | 1.050 | 3.574 |      | .127  | 40 |
|                        |       |        |       |     |         |     |    | 70028                        | 36.66  |        | 1.030 | 1.993 |      | .087  | 40 |
|                        |       |        |       |     |         |     |    | 70029                        | 62.38  |        | 1.020 | 1.416 |      | .064  | 40 |
|                        |       |        |       |     |         |     |    | 70030                        | 85.23  |        | 1.010 | 1.145 |      | -.079 | 40 |
|                        |       |        |       |     |         |     |    | 70031                        | 112.37 |        | 1.010 | .905  |      | -.045 | 40 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

SOURCE-NUMBERS (BELGIUM) (2)

SOURCE-NUMBERS (BELGIUM) (3)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU | D-H    | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU | D-H   | T  |
|--------|--------|--------|-------|--------|------|--------|----|--------|--------|--------|-------|--------|------|-------|----|
| 70032  | 2.62   |        | 2.030 | 11.810 |      | .174   | 40 | 70063  | 38.09  |        | .103  | .800   |      | -.291 | 60 |
| 70033  | 7.62   |        | 2.110 | 6.750  |      | .127   | 40 | 70064  | 58.57  |        | .107  | .866   |      | -.130 | 60 |
| 70034  | 27.38  |        | 2.050 | 2.930  |      | .082   | 40 | 70065  | 85.71  |        | .081  | .822   |      | -.200 | 60 |
| 70035  | 61.66  |        | 1.940 | 1.644  |      | .058   | 40 | 70066  | 107.61 |        | .089  | .750   |      | -.190 | 60 |
| 70036  | 88.57  |        | 1.890 | 1.204  |      | .048   | 40 | 70067  | 6.90   |        | 1.047 | -4.448 |      | .158  | 60 |
| 70037  | 122.85 |        | 1.910 | .895   |      | .037   | 40 | 70068  | 15.00  |        | 1.040 | 2.857  |      | .132  | 60 |
| 70038  | 4.52   |        | 3.140 | 13.110 |      | .117   | 40 | 70069  | 38.09  |        | .960  | 1.806  |      | .115  | 60 |
| 70039  | 26.90  |        | 3.160 | 3.416  |      | .068   | 40 | 70070  | 61.42  |        | 1.020 | 1.360  |      | .080  | 60 |
| 70040  | 59.28  |        | 3.056 | 1.803  |      | .049   | 40 | 70071  | 86.66  |        | 1.020 | 1.063  |      | -.083 | 60 |
| 70041  | 86.90  |        | 3.030 | 1.277  |      | .044   | 40 | 70072  | 113.09 |        | 1.025 | .853   |      | -.068 | 60 |
| 70042  | 112.61 |        | 2.913 | 1.011  |      | .037   | 40 | 70073  | 5.24   |        | 1.537 | 6.270  |      | .135  | 60 |
| 70043  | 20.71  |        | .011  | .322   |      | -1.000 | 50 | 70074  | 32.38  |        | 1.532 | 2.220  |      | .101  | 60 |
| 70044  | 38.57  |        | .011  | .648   |      | -.909  | 50 | 70075  | 61.42  |        | 1.492 | 1.400  |      | .086  | 60 |
| 70045  | 59.04  |        | .011  | .746   |      | -1.000 | 50 | 70076  | 88.80  |        | 1.475 | 1.050  |      | .071  | 60 |
| 70046  | 81.42  |        | .010  | .746   |      | -1.100 | 50 | 70077  | 3.10   |        | 2.070 | 8.770  |      | .173  | 60 |
| 70047  | 101.66 |        | .011  | .728   |      | -1.000 | 50 | 70078  | 10.71  |        | 2.080 | 4.310  |      | -.086 | 60 |
| 70048  | 14.28  |        | .524  | 1.567  |      | .114   | 50 | 70079  | 27.14  |        | 1.990 | 2.579  |      | .077  | 60 |
| 70049  | 32.14  |        | .504  | 1.363  |      | .101   | 50 | 70080  | 63.09  |        | 1.990 | 1.351  |      | .065  | 60 |
| 70050  | 61.42  |        | .490  | 1.105  |      | .084   | 50 | 70081  | 89.04  |        | 1.960 | 1.115  |      | .060  | 60 |
| 70051  | 99.99  |        | .460  | .852   |      | .074   | 50 | 70082  | 109.04 |        | 1.900 | .952   |      | .053  | 60 |
| 70052  | 135.71 |        | .450  | .695   |      | -.091  | 50 |        |        |        |       |        |      |       |    |
| 70053  | 245.70 |        | .471  | .471   |      | .017   | 50 |        |        |        |       |        |      |       |    |
| 70054  | 15.24  |        | 1.024 | 2.578  |      | .114   | 50 |        |        |        |       |        |      |       |    |
| 70055  | 90.71  |        | .950  | 1.034  |      | -.075  | 50 |        |        |        |       |        |      |       |    |
| 70056  | 136.42 |        | .948  | .768   |      | -.020  | 50 |        |        |        |       |        |      |       |    |
| 70057  | 234.75 |        | .950  | .502   |      | .016   | 50 |        |        |        |       |        |      |       |    |
| 70058  | 10.24  |        | 2.038 | 4.950  |      | .117   | 50 |        |        |        |       |        |      |       |    |
| 70059  | 28.57  |        | 2.028 | 2.610  |      | .090   | 50 |        |        |        |       |        |      |       |    |
| 70060  | 84.52  |        | 1.830 | 1.186  |      | .057   | 50 |        |        |        |       |        |      |       |    |
| 70061  | 124.99 |        | 1.914 | .890   |      | -.024  | 50 |        |        |        |       |        |      |       |    |
| 70062  | 18.57  |        | .100  | .449   |      | -.910  | 60 |        |        |        |       |        |      |       |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

Part I.2

SOURCE-NUMBERS (INDIA) (1)

SOURCE-NUMBERS (INDIA) (2)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU  | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU   | D-H   | T  |
|--------|--------|--------|-------|---------|-------|-------|----|--------|--------|--------|-------|---------|--------|-------|----|
| 80021  | 184.03 | 1.69   | 1.170 | .630    | .172  |       | 25 | 81045  | 6.50   | .09    | 3.230 |         | 3.886  | .105  | 25 |
| 80022  | 99.22  | 1.63   | 1.190 | 1.137   | .232  |       | 25 | 81046  | 1.40   | .02    | 2.930 |         | 8.873  | .198  | 25 |
| 80023  | 58.01  | 1.49   | 1.220 | 1.759   | -.313 |       | 25 | 81047  | .73    | .01    | 2.940 |         | 10.551 | .197  | 25 |
| 80024  | 27.60  | 1.20   | 1.100 | 2.754   | .619  |       | 25 | 81048  | .36    |        | 2.920 |         | 12.546 | .236  | 25 |
| 80025  | 7.35   | .71    | 1.090 | 6.401   | 1.765 |       | 25 | 81050  | 16.80  | .40    | 3.320 | 5.022   | 1.680  | .072  | 25 |
| 80026  | .61    | .62    | 1.100 | 8.672   | 2.303 |       | 25 | 81060  | .30    | .03    | 2.940 | 24.167  | 12.790 | .207  | 25 |
| 80027  | .39    | .44    | 1.100 | 7.821   | 3.552 |       | 25 | 82001  | 8.50   |        | .900  | 3.882   |        | .140  | 25 |
| 80031  | 184.03 | 1.68   | 1.184 | .603    | .159  |       | 25 | 82002  | 25.50  |        | .935  | -2.275  |        | .099  | 25 |
| 80032  | 105.62 | 1.11   | 1.191 | .975    | .269  |       | 25 | 82003  | 47.01  |        | .960  | -1.447  |        | .079  | 25 |
| 80033  | 56.01  | .71    | 1.145 | 1.696   | .430  |       | 25 | 82004  | 74.01  |        | .970  | 1.216   |        | -.068 | 25 |
| 80034  | 14.80  | .24    | 1.106 | 4.081   | 1.016 |       | 25 | 82005  | 108.02 |        | .980  | .935    |        | -.063 | 25 |
| 80035  | 4.00   | .07    | 1.041 | 6.500   | 1.883 |       | 25 | 82006  | 180.03 |        | .985  | .617    |        |       | 25 |
| 80036  | .94    | .02    | 1.002 | 8.468   | 2.933 |       | 25 | 82007  | 1.90   |        | 1.720 | -10.474 |        |       | 25 |
| 80037  | .29    |        | .989  | 9.207   | 3.802 |       | 25 | 82008  | 4.40   |        | 1.790 | 8.864   |        |       | 25 |
| 80045  | 42.81  | .60    | 1.030 | 2.047   | .488  | -.107 | 25 | 82009  | 8.40   |        | 1.850 | 6.810   |        |       | 25 |
| 80050  | 2.10   | .24    | .960  | 6.857   | 1.990 | -.240 | 25 | 82010  | 14.50  |        | 1.890 | 4.828   |        |       | 25 |
| 80070  |        | .02    | 2.030 |         | 8.460 |       | 25 | 82011  | 21.50  |        | 1.920 | 3.674   |        |       | 25 |
| 80081  | 124.02 | 1.13   | 2.180 | .871    | .324  |       | 25 | 82012  | 26.00  |        | 1.940 | 3.154   |        |       | 25 |
| 80082  | 49.01  | .62    | 2.070 | 2.122   | .605  |       | 25 | 82013  | 31.01  |        | 1.950 | 2.806   |        |       | 25 |
| 80083  | 30.01  | .34    | 2.130 | 3.000   | 1.115 |       | 25 | 82014  | 37.01  |        | 1.960 | 2.405   |        |       | 25 |
| 80084  | 6.50   | .09    | 2.040 | 9.046   | 3.000 |       | 25 | 82015  | 41.01  |        | 1.960 | 2.195   |        |       | 25 |
| 80085  | 1.66   | .03    | 2.020 | -18.072 | 5.176 |       | 25 | 82016  | 54.01  |        | 1.990 | 1.833   |        |       | 25 |
| 80086  | .70    | .01    | 2.020 | -21.571 | 7.066 |       | 25 | 82017  | 66.31  |        | 2.000 | 1.531   |        |       | 25 |
| 80087  | .30    |        | 2.000 | -26.000 | 8.059 |       | 25 | 82018  | 96.02  |        | 2.015 | 1.094   |        |       | 25 |
| 80090  | 25.20  | .40    | 2.260 | 3.349   | 1.083 | .075  | 25 | 82019  | 3.40   |        | 2.700 | 11.912  |        | .154  | 25 |
| 81000  | .40    | .03    | 1.990 |         | 7.500 | .216  | 25 | 82020  | 10.00  |        | 2.870 | 7.150   |        | .097  | 25 |
| 81001  | .40    | .21    | 1.980 |         | 7.055 | .212  | 25 | 82021  | 29.20  |        | 2.980 | 3.253   |        | .061  | 25 |
| 81041  | 191.53 | 1.32   | 3.230 | .572    | .295  | -.096 | 25 | 82022  | 40.51  |        | 3.010 | 2.444   |        | .053  | 25 |
| 81042  | 90.52  | .76    | 3.330 |         | .526  | -.069 | 25 | 82023  | 62.01  |        | 3.030 | 1.653   |        | .045  | 25 |
| 81043  | 46.81  | .46    | 3.380 |         | .874  | -.059 | 25 | 82024  | 101.22 |        | 3.050 | 1.059   |        | -.037 | 25 |
| 81044  | 17.20  | .22    | 3.280 |         | 1.797 | .073  | 25 | 82025  | 2.08   |        | 3.520 | 19.519  |        | .147  | 25 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

SOURCE-NUMBERS (INDIA) (3)

SOURCE-NUMBERS (INDIA) (4)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U   | D-PU   | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU | D-H   | T  |
|--------|-------|--------|-------|-------|--------|-------|----|--------|--------|--------|-------|--------|------|-------|----|
| 82026  | 8.50  |        | 3.860 | 8.635 |        | .093  | 25 | 83035  | 104.02 |        | 1.170 | .947   |      | -.066 | 45 |
| 82027  | 26.50 |        | 3.960 | 3.623 |        | .057  | 25 | 83036  | 162.03 |        | 1.180 | .623   |      | -.058 | 45 |
| 82028  | 42.01 |        | 3.980 | 2.381 |        | .047  | 25 | 83037  | 2.64   |        | 2.080 | 10.606 |      | .179  | 45 |
| 82029  | 61.01 |        | 3.980 | 1.705 |        | .040  | 25 | 83038  | 7.65   |        | 2.160 | 6.706  |      | .131  | 45 |
| 82030  | 98.02 |        | 3.990 | 1.082 |        | .033  | 25 | 83039  | 32.01  |        | 2.270 | 2.650  |      | .081  | 45 |
| 83001  |       |        | 1.000 |       | 2.780  |       | 10 | 83040  | 77.91  |        | 2.340 | 1.207  |      | -.059 | 45 |
| 83002  |       |        | 1.000 |       | 2.790  |       | 20 | 83041  | 130.02 |        | 2.350 | .812   |      | .043  | 45 |
| 83003  |       |        | 1.000 |       | 3.030  |       | 30 | 83042  | 184.53 |        | 2.390 | .602   |      | -.039 | 45 |
| 83004  |       |        | 1.000 |       | 3.200  |       | 40 | 83043  | 1.83   |        | 3.130 | 15.137 |      | .179  | 45 |
| 83005  |       |        | 1.000 |       | 3.350  |       | 50 | 83044  | 6.08   |        | 3.270 | 8.438  |      | .135  | 45 |
| 83006  |       |        | 1.000 |       | 3.410  |       | 60 | 83045  | 27.50  |        | 3.480 | 3.149  |      | .075  | 45 |
| 83007  |       |        | 2.000 |       | 6.430  |       | 10 | 83046  | 73.41  |        | 3.540 | 1.335  |      | .051  | 45 |
| 83008  |       |        | 2.000 |       | 7.110  |       | 20 | 83047  | 128.02 |        | 3.590 | .797   |      | .042  | 45 |
| 83009  |       |        | 2.000 |       | 8.030  |       | 30 | 83048  | 185.03 |        | 3.600 | .627   |      | .036  | 45 |
| 83010  |       |        | 2.000 |       | 9.160  |       | 40 | 83049  | 1.64   |        | 4.090 | 16.707 |      | .159  | 45 |
| 83011  |       |        | 2.000 |       | 10.380 |       | 50 | 83050  | 5.21   |        | 4.260 | 9.866  |      | .117  | 45 |
| 83012  |       |        | 2.000 |       | 11.260 |       | 60 | 83051  | 30.61  |        | 4.530 | 2.784  |      | .060  | 45 |
| 83013  |       |        | 3.000 |       | 11.050 |       | 10 | 83052  | 78.61  |        | 4.700 | 1.279  |      | .043  | 45 |
| 83014  |       |        | 3.000 |       | 12.370 |       | 20 | 83053  | 129.02 |        | 4.730 | .779   |      | .036  | 45 |
| 83015  |       |        | 3.000 |       | 14.110 |       | 30 | 83054  | 193.03 |        | 4.740 | .557   |      | .032  | 45 |
| 83016  |       |        | 3.000 |       | 15.280 |       | 40 | 83055  | 6.00   |        | 1.040 | 3.583  |      | .146  | 60 |
| 83017  |       |        | 3.000 |       | 17.320 |       | 50 | 83056  | 14.00  |        | 1.070 | 2.786  |      | .123  | 60 |
| 83018  |       |        | 3.000 |       | 18.530 |       | 60 | 83057  | 37.81  |        | 1.110 | 1.791  |      | .095  | 60 |
| 83019  |       | .08    | 3.000 |       | 12.200 |       | 20 | 83058  | 73.51  |        | 1.140 | 1.102  |      | .079  | 60 |
| 83020  |       | .07    | 3.000 |       | 14.190 |       | 30 | 83059  | 113.02 |        | 1.160 | .841   |      | -.071 | 60 |
| 83021  |       | .06    | 3.000 |       | 15.860 |       | 40 | 83060  | 160.53 |        | 1.160 | .640   |      | -.066 | 60 |
| 83022  |       | .06    | 3.000 |       | 17.410 |       | 50 | 83061  | 3.60   |        | 2.050 | 7.083  |      | .175  | 60 |
| 83031  | 4.40  |        | 1.050 | 5.182 |        | .152  | 45 | 83062  | 9.60   |        | 2.130 | 5.365  |      | .135  | 60 |
| 83032  | 10.60 |        | 1.080 | 3.821 |        | .120  | 45 | 83063  | 36.31  |        | 2.240 | 2.300  |      | .084  | 60 |
| 83033  | 32.91 |        | 1.130 | 2.076 |        | .088  | 45 | 83064  | 80.81  |        | 2.290 | 1.170  |      | .062  | 60 |
| 83034  | 66.11 |        | 1.140 | 1.268 |        | -.076 | 45 | 83065  | 134.52 |        | 2.300 | .803   |      | .050  | 60 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

| SOURCE-NUMBERS (INDIA) (5) |        |        |       |        |      |       |    | SOURCE-NUMBERS (INDIA) (6) |       |        |       |         |      |     |    |
|----------------------------|--------|--------|-------|--------|------|-------|----|----------------------------|-------|--------|-------|---------|------|-----|----|
| SOURCE                     | U-AQU  | PU-AQU | H-AQU | D-U    | D-PU | D-H   | T  | SOURCE                     | U-AQU | PU-AQU | H-AQU | D-U     | D-PU | D-H | T  |
| 83066                      | 186.03 |        | 2.330 | .575   |      | -.044 | 60 | 84011                      | .01   |        | .500  | 2.070   |      |     | 40 |
| 83067                      | 2.50   |        | 3.090 | 10.760 |      | .171  | 60 | 84012                      | .01   |        | .500  | 1.680   |      |     | 50 |
| 83068                      | 7.42   |        | 3.220 | 7.749  |      | .130  | 60 | 84013                      | .01   |        | 1.000 | 7.920   |      |     | 10 |
| 83069                      | 32.91  |        | 3.420 | 2.295  |      | .077  | 60 | 84014                      | .01   |        | 1.000 | 6.890   |      |     | 20 |
| 83070                      | 81.01  |        | 3.510 | 1.160  |      | .055  | 60 | 84015                      | .01   |        | 1.000 | 5.780   |      |     | 30 |
| 83071                      | 139.72 |        | 3.540 | .732   |      | .047  | 60 | 84016                      | .01   |        | 1.000 | 4.900   |      |     | 40 |
| 83072                      | 183.53 |        | 3.560 | .557   |      | .042  | 60 | 84017                      | .01   |        | 1.000 | 4.180   |      |     | 50 |
| 83073                      | 2.49   |        | 4.150 | 10.964 |      | .160  | 60 | 84018                      | .01   |        | 1.000 | 3.580   |      |     | 60 |
| 83074                      | 7.35   |        | 4.220 | 6.966  |      | .123  | 60 | 84019                      | .01   |        | 4.000 | -21.400 |      |     | 20 |
| 83075                      | 35.21  |        | 4.510 | 2.273  |      | .071  | 60 | 84020                      | .01   |        | 4.000 | -18.700 |      |     | 30 |
| 83076                      | 82.01  |        | 4.590 | 1.152  |      | .053  | 60 | 84021                      | .01   |        | 4.000 | -15.800 |      |     | 40 |
| 83077                      | 135.52 |        | 4.630 | .793   |      | .044  | 60 | 84022                      | .01   |        | 4.000 | -13.000 |      |     | 50 |
| 83078                      | 192.03 |        | 4.650 | .547   |      | .041  | 60 | 84023                      | .01   |        | 4.000 | -11.200 |      |     | 60 |
| 83079                      |        |        | 1.020 |        |      | .186  | 45 |                            |       |        |       |         |      |     |    |
| 83080                      |        |        | 1.950 |        |      | .243  | 45 |                            |       |        |       |         |      |     |    |
| 83081                      |        |        | 2.980 |        |      | .228  | 45 |                            |       |        |       |         |      |     |    |
| 83082                      |        |        | 4.000 |        |      | .207  | 45 |                            |       |        |       |         |      |     |    |
| 83083                      |        |        | 1.030 |        |      | .175  | 60 |                            |       |        |       |         |      |     |    |
| 83084                      |        |        | 2.000 |        |      | .223  | 60 |                            |       |        |       |         |      |     |    |
| 83085                      |        |        | 2.920 |        |      | .218  | 60 |                            |       |        |       |         |      |     |    |
| 83086                      |        |        | 4.030 |        |      | .205  | 60 |                            |       |        |       |         |      |     |    |
| 84001                      | .01    |        | .100  | .335   |      |       | 20 |                            |       |        |       |         |      |     |    |
| 84002                      | .01    |        | .100  | .241   |      |       | 30 |                            |       |        |       |         |      |     |    |
| 84003                      | .01    |        | .100  | .183   |      |       | 40 |                            |       |        |       |         |      |     |    |
| 84004                      | .01    |        | .100  | .144   |      |       | 50 |                            |       |        |       |         |      |     |    |
| 84005                      | .01    |        | .250  | 1.270  |      |       | 20 |                            |       |        |       |         |      |     |    |
| 84006                      | .01    |        | .250  | .960   |      |       | 30 |                            |       |        |       |         |      |     |    |
| 84007                      | .01    |        | .250  | .733   |      |       | 40 |                            |       |        |       |         |      |     |    |
| 84008                      | .01    |        | .250  | .575   |      |       | 50 |                            |       |        |       |         |      |     |    |
| 84009                      | .01    |        | .500  | 3.250  |      |       | 20 |                            |       |        |       |         |      |     |    |
| 84010                      | .01    |        | .500  | 2.550  |      |       | 30 |                            |       |        |       |         |      |     |    |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

| SOURCE-NUMBERS (CZECHOSLOVAKIA) |        |        |       |      |      |     | SOURCE-NUMBERS (CHINA) (1) |        |       |        |       |          |      |       |    |
|---------------------------------|--------|--------|-------|------|------|-----|----------------------------|--------|-------|--------|-------|----------|------|-------|----|
| SOURCE                          | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H | T                          | SOURCE | U-AQU | PU-AQU | H-AQU | D-U      | D-PU | D-H   | T  |
| 90001                           | 23.09  |        | .000  | .680 |      |     | 25                         | 91001  | .02   |        | .014  | -.318    |      |       | 20 |
| 90002                           | 109.52 |        | .000  | .910 |      |     | 25                         | 91002  | .02   |        | .056  | -.236    |      |       | 20 |
| 90003                           | 223.80 |        | .000  | .560 |      |     | 25                         | 91003  | .01   |        | .098  | -.484    |      | -.029 | 20 |
|                                 |        |        |       |      |      |     |                            | 91004  | .01   |        | .437  | 3.617    |      | .158  | 20 |
|                                 |        |        |       |      |      |     |                            | 91005  |       |        | .637  | 5.940    |      | .190  | 20 |
|                                 |        |        |       |      |      |     |                            | 91006  |       |        | 1.249 | -7.830   |      | .222  | 20 |
|                                 |        |        |       |      |      |     |                            | 91007  |       |        | 1.643 | -24.488  |      | .219  | 20 |
|                                 |        |        |       |      |      |     |                            | 91008  |       |        | 2.090 | -30.616  |      | .222  | 20 |
|                                 |        |        |       |      |      |     |                            | 91009  |       |        | 2.540 | -45.997  |      | .215  | 20 |
|                                 |        |        |       |      |      |     |                            | 91010  |       |        | 2.961 | -82.633  |      | .208  | 20 |
|                                 |        |        |       |      |      |     |                            | 91011  |       |        | 3.455 | -62.463  |      | .202  | 20 |
|                                 |        |        |       |      |      |     |                            | 91012  |       |        | 4.697 | -24.564  |      | .183  | 20 |
|                                 |        |        |       |      |      |     |                            | 91013  |       |        | .025  | -34.656  |      |       | 20 |
|                                 |        |        |       |      |      |     |                            | 91014  | .07   |        | .056  | -.315    |      |       | 20 |
|                                 |        |        |       |      |      |     |                            | 91015  | .06   |        | .096  | -.547    |      |       | 20 |
|                                 |        |        |       |      |      |     |                            | 91016  | .02   |        | .421  | 3.641    |      | .157  | 20 |
|                                 |        |        |       |      |      |     |                            | 91017  | .01   |        | .446  | -5.756   |      | -.281 | 20 |
|                                 |        |        |       |      |      |     |                            | 91018  | .01   |        | 1.251 | -15.526  |      | .223  | 20 |
|                                 |        |        |       |      |      |     |                            | 91019  |       |        | 1.645 | -24.497  |      | .220  | 20 |
|                                 |        |        |       |      |      |     |                            | 91020  |       |        | 2.084 | -41.743  |      | .217  | 20 |
|                                 |        |        |       |      |      |     |                            | 91021  |       |        | 2.540 | -50.893  |      | .213  | 20 |
|                                 |        |        |       |      |      |     |                            | 91022  |       |        | 2.981 | -80.504  |      | .212  | 20 |
|                                 |        |        |       |      |      |     |                            | 91023  |       |        | 3.405 | -117.465 |      | .201  | 20 |
|                                 |        |        |       |      |      |     |                            | 91024  |       |        | 4.691 | -138.014 |      | .187  | 20 |
|                                 |        |        |       |      |      |     |                            | 91025  | .37   |        | .071  | -.419    |      | -.148 | 20 |
|                                 |        |        |       |      |      |     |                            | 91026  | .34   |        | .117  | .479     |      | -.023 | 20 |
|                                 |        |        |       |      |      |     |                            | 91027  | .29   |        | .162  | .753     |      | -.047 | 20 |
|                                 |        |        |       |      |      |     |                            | 91028  | .11   |        | .459  | 3.232    |      | -.194 | 20 |
|                                 |        |        |       |      |      |     |                            | 91029  | .09   |        | .654  | -4.319   |      | .191  | 20 |
|                                 |        |        |       |      |      |     |                            | 91030  | .04   |        | 1.244 | 11.899   |      | .227  | 20 |
|                                 |        |        |       |      |      |     |                            | 91031  | .03   |        | 1.635 | 17.385   |      | .212  | 20 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO3

SOURCE-NUMBERS (CHINA) (2)

SOURCE-NUMBERS (CHINA) (3)

| SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U     | D-PU | D-H   | T  |
|--------|-------|--------|-------|---------|------|-------|----|--------|-------|--------|-------|---------|------|-------|----|
| 91032  | .02   |        | 2.110 | 22.702  |      | .215  | 20 | 91063  | 7.55  |        | .100  | .635    |      |       | 20 |
| 91033  | .02   |        | 2.553 | 28.048  |      | .206  | 20 | 91064  | 3.42  |        | .409  | 2.599   |      | .137  | 20 |
| 91034  | .01   |        | 2.967 | 32.480  |      | .206  | 20 | 91065  | 2.28  |        | .597  | 4.382   |      | .171  | 20 |
| 91035  | .01   |        | 3.401 | 41.270  |      | .196  | 20 | 91066  | 1.21  |        | 1.117 | 9.016   |      | .160  | 20 |
| 91036  | .01   |        | 4.740 | 53.158  |      | .179  | 20 | 91067  | .80   |        | 1.542 | 14.357  |      | .201  | 20 |
| 91037  | .59   |        | .132  | -.658   |      | .095  | 20 | 91068  | .59   |        | 1.978 | 19.576  |      | .197  | 20 |
| 91038  | .65   |        | .166  | .704    |      | .102  | 20 | 91069  | .51   |        | 2.363 | 22.715  |      | .198  | 20 |
| 91039  | .45   |        | .209  | 1.118   |      | .123  | 20 | 91070  | .42   |        | 2.814 | 27.693  |      | .183  | 20 |
| 91040  | .18   |        | .530  | -4.666  |      | .167  | 20 | 91071  | .36   |        | 3.194 | 32.609  |      | .184  | 20 |
| 91041  | .13   |        | .730  | 7.011   |      | .191  | 20 | 91072  | .27   |        | 4.512 | 43.912  |      | .170  | 20 |
| 91042  | .06   |        | 1.344 | 14.451  |      | .222  | 20 | 91073  | 16.38 |        | .006  | .446    |      |       | 20 |
| 91043  | .05   |        | 1.689 | 18.286  |      | .233  | 20 | 91074  | 14.61 |        | .051  | .611    |      |       | 20 |
| 91044  | .03   |        | 2.189 | -38.112 |      | .218  | 20 | 91075  | 13.28 |        | .107  | .787    |      |       | 20 |
| 91045  | .03   |        | 2.610 | 29.559  |      | .212  | 20 | 91076  | 6.50  |        | .422  | 2.588   |      | .124  | 20 |
| 91046  | .03   |        | 3.066 | 35.203  |      | .205  | 20 | 91077  | 4.57  |        | .620  | 4.011   |      | .147  | 20 |
| 91047  | .02   |        | 3.491 | 39.619  |      | .203  | 20 | 91078  | 2.25  |        | 1.206 | 9.079   |      | .173  | 20 |
| 91048  | .02   |        | 4.815 | -66.313 |      | .181  | 20 | 91079  | 1.76  |        | 1.670 | 13.180  |      | .175  | 20 |
| 91049  | 4.29  |        | .001  | .090    |      |       | 20 | 91080  | 1.13  |        | 2.033 | 19.437  |      | .171  | 20 |
| 91050  | 3.85  |        | .047  | .239    |      | .037  | 20 | 91081  | .91   |        | 2.430 | 24.317  |      | .181  | 20 |
| 91051  | 3.47  |        | .112  | -.360   |      | -.037 | 20 | 91082  | .82   |        | 2.831 | 26.881  |      | .178  | 20 |
| 91052  | 2.13  |        | .380  | -1.282  |      | -.178 | 20 | 91083  | .60   |        | 3.301 | -36.677 |      | .170  | 20 |
| 91053  | .72   |        | .617  | 5.557   |      | .179  | 20 | 91084  | .43   |        | 4.548 | -51.618 |      | .155  | 20 |
| 91054  | .37   |        | 1.250 | 11.578  |      | .210  | 20 | 91085  | 32.02 |        | .001  | .764    |      |       | 20 |
| 91055  | .27   |        | 1.650 | 16.225  |      | .209  | 20 | 91086  | 30.02 |        | .049  | .841    |      |       | 20 |
| 91056  | .18   |        | 2.100 | 24.815  |      | .213  | 20 | 91087  | 24.54 |        | .251  | 1.560   |      | .096  | 20 |
| 91057  | .14   |        | 2.603 | -33.390 |      | .197  | 20 | 91088  | 16.62 |        | .434  | -2.747  |      | -.049 | 20 |
| 91058  | .11   |        | 3.032 | -41.399 |      | .202  | 20 | 91089  | 13.37 |        | .677  | 3.549   |      | -.063 | 20 |
| 91059  | .09   |        | 3.461 | -55.783 |      | .193  | 20 | 91090  | 8.62  |        | 1.410 | 6.223   |      | .112  | 20 |
| 91060  | .05   |        | 4.836 | -97.520 |      | .172  | 20 | 91091  | 6.85  |        | 1.746 | 7.943   |      | .116  | 20 |
| 91061  | 9.78  |        | .006  | .273    |      |       | 20 | 91092  | 5.32  |        | 2.189 | 10.505  |      | .113  | 20 |
| 91062  | 8.70  |        | .005  | -.410   |      |       | 20 | 91093  | 4.42  |        | 2.580 | 12.816  |      | .121  | 20 |

DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

SOURCE-NUMBERS (CHINA) (4)

SOURCE-NUMBERS (CHINA) (5)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU | D-H   | T  | SOURCE | U-AQU  | PU-AQU | H-AQU | D-U  | D-PU | D-H   | T  |
|--------|--------|--------|-------|---------|------|-------|----|--------|--------|--------|-------|------|------|-------|----|
| 91094  | 3.55   |        | 2.944 | 16.032  |      | .110  | 20 | 91125  | 125.83 |        | .080  | .790 |      |       | 20 |
| 91095  | 3.11   |        | 3.378 | 18.217  |      | .115  | 20 | 91126  | 135.73 |        | .145  | .733 |      |       | 20 |
| 91096  | 2.22   |        | 4.557 | -25.515 |      | -.086 | 20 | 91127  | 135.02 |        | .535  | .741 |      |       | 20 |
| 91097  | 58.91  |        | .001  | .918    |      |       | 20 | 91128  | 130.52 |        | .778  | .828 |      |       | 20 |
| 91098  | 64.68  |        | .010  | .890    |      |       | 20 | 91129  | 126.23 |        | 1.593 | .910 |      | -.014 | 20 |
| 91099  | 63.41  |        | .126  | -.937   |      |       | 20 | 91130  | 125.92 |        | 2.628 | .926 |      | .020  | 20 |
| 91100  | 53.30  |        | .387  | 1.292   |      | -.011 | 20 | 91131  | 124.61 |        | 3.140 | .959 |      | .021  | 20 |
| 91101  | 48.77  |        | .595  | 1.493   |      | -.030 | 20 | 91132  | 124.11 |        | 3.419 | .949 |      | .026  | 20 |
| 91102  | 37.28  |        | 1.263 | 2.267   |      | -.036 | 20 | 91133  | 123.71 |        | 4.252 | .931 |      | .022  | 20 |
| 91103  | 33.25  |        | 1.588 | 2.578   |      | -.037 | 20 | 91134  | 124.02 |        | 4.509 | .940 |      | .022  | 20 |
| 91104  | 28.45  |        | 2.085 | 3.251   |      | .042  | 20 | 91135  | 119.12 |        | 5.366 | .961 |      | .020  | 20 |
| 91105  | 25.68  |        | 2.506 | 3.626   |      | -.040 | 20 | 91136  | 181.62 |        | .041  | .627 |      |       | 20 |
| 91106  | 24.83  |        | 2.868 | 3.747   |      | -.041 | 20 | 91137  | 186.29 |        | .065  | .591 |      |       | 20 |
| 91107  | 21.69  |        | 3.334 | 4.515   |      | -.040 | 20 | 91138  | 169.13 |        | .500  | .666 |      | .024  | 20 |
| 91108  | 20.14  |        | 4.518 | 4.817   |      | -.026 | 20 | 91139  | 168.53 |        | .774  | .676 |      | -.034 | 20 |
| 91109  | 24.49  |        | 5.470 | 3.691   |      | .035  | 20 | 91140  | 163.63 |        | 1.649 | .716 |      | -.026 | 20 |
| 91110  | 93.03  |        | .017  | .796    |      |       | 20 | 91141  | 168.44 |        | 2.233 | .717 |      | -.023 | 20 |
| 91111  | 96.03  |        | .056  | .870    |      |       | 20 | 91142  | 161.37 |        | 2.322 | .719 |      | -.024 | 20 |
| 91112  | 104.02 |        | .145  | -.781   |      |       | 20 | 91143  | 162.49 |        | 3.025 | .736 |      | .025  | 20 |
| 91113  | 96.03  |        | .445  | .922    |      | -.049 | 20 | 91144  | 157.53 |        | 3.827 | .759 |      | .020  | 20 |
| 91114  | 92.50  |        | .634  | .999    |      | .052  | 20 | 91145  | 175.27 |        | 4.559 | .665 |      | .020  | 20 |
| 91115  | 79.31  |        | .709  | 1.213   |      | .047  | 20 | 91146  | 179.77 |        | 6.134 | .665 |      | .022  | 20 |
| 91116  | 78.22  |        | 1.470 | 1.360   |      | -.058 | 20 | 91147  | 228.83 |        | .107  | .509 |      |       | 20 |
| 91117  | 77.89  |        | 1.896 | 1.400   |      | .030  | 20 | 91148  | 234.04 |        | 1.433 | .509 |      | -.021 | 20 |
| 91118  | 73.41  |        | 2.627 | 1.444   |      | .029  | 20 | 91149  | 240.90 |        | 1.858 | .498 |      | .018  | 20 |
| 91119  | 73.01  |        | 2.940 | 1.534   |      | .037  | 20 | 91150  | 228.64 |        | 2.215 | .525 |      | .016  | 20 |
| 91120  | 63.01  |        | 3.409 | 1.827   |      | .036  | 20 | 91151  | 235.85 |        | 3.211 | .517 |      | .012  | 20 |
| 91121  | 67.51  |        | 4.025 | 1.687   |      | .029  | 20 | 91152  | 233.04 |        | 3.755 | .524 |      | .019  | 20 |
| 91122  | 65.01  |        | 5.648 | 1.677   |      | .026  | 20 | 91153  | 233.99 |        | 4.420 | .509 |      | -.090 | 20 |
| 91123  | 135.49 |        | .016  | .723    |      |       | 20 | 91154  | 226.61 |        | 6.354 | .525 |      | -.039 | 20 |
| 91124  | 126.83 |        | .056  | .741    |      |       | 20 | 91155  | 243.75 |        | 2.016 | .480 |      | .015  | 30 |



DISTRIBUTION COEFFICIENTS OF U(VI), PU(IV) AND HNO<sub>3</sub>

SOURCE-NUMBERS (CHINA) (6)

SOURCE-NUMBERS (CHINA) (7)

| SOURCE | U-AQU  | PU-AQU | H-AQU | D-U     | D-PU | D-H   | T  | SOURCE | U-AQU | PU-AQU | H-AQU | D-U    | D-PU | D-H  | T  |
|--------|--------|--------|-------|---------|------|-------|----|--------|-------|--------|-------|--------|------|------|----|
| 91156  | 171.82 |        | 2.284 | .661    |      | .018  | 30 | 91187  | 3.13  |        | 1.715 | 6.605  |      | .160 | 70 |
| 91157  | 129.02 |        | 1.983 | .856    |      | .024  | 30 | 91188  | 1.23  |        | 1.717 | 6.615  |      | .186 | 70 |
| 91158  | 76.01  |        | 1.957 | 1.362   |      | .034  | 30 | 91189  | .52   |        | 1.716 | 7.564  |      | .189 | 70 |
| 91159  | 30.56  |        | 1.952 | 2.843   |      | .059  | 30 | 91190  | .06   |        | 1.707 | 11.810 |      | .201 | 70 |
| 91160  | 6.97   |        | 1.819 | 7.330   |      | .111  | 30 | 91191  | .04   |        | 1.684 | 9.918  |      | .205 | 70 |
| 91161  | 1.54   |        | 1.722 | -14.545 |      | .163  | 30 | 91192  | .02   |        | 1.694 | -5.468 |      | .202 | 70 |
| 91162  | .66    |        | 1.720 | 13.199  |      | .187  | 30 | 91193  |       |        | 1.686 | 10.000 |      | .208 | 70 |
| 91163  | .37    |        | 1.687 | -11.346 |      | .201  | 30 |        |       |        |       |        |      |      |    |
| 91164  | .05    |        | 1.679 | 13.893  |      | .209  | 30 |        |       |        |       |        |      |      |    |
| 91165  | .05    |        | 1.674 | -7.298  |      | .210  | 30 |        |       |        |       |        |      |      |    |
| 91166  | .01    |        | 1.678 | 13.616  |      | .215  | 30 |        |       |        |       |        |      |      |    |
| 91167  |        |        | 1.720 | 15.643  |      | .211  | 30 |        |       |        |       |        |      |      |    |
| 91168  | 245.90 |        | 2.009 | .471    |      | -.015 | 50 |        |       |        |       |        |      |      |    |
| 91169  | 170.39 |        | 1.986 | .658    |      | .023  | 50 |        |       |        |       |        |      |      |    |
| 91170  | 131.30 |        | 1.990 | .820    |      | .028  | 50 |        |       |        |       |        |      |      |    |
| 91171  | 78.43  |        | 2.001 | 1.290   |      | -.036 | 50 |        |       |        |       |        |      |      |    |
| 91172  | 34.90  |        | 1.925 | 2.389   |      | .066  | 50 |        |       |        |       |        |      |      |    |
| 91173  | 9.01   |        | 1.824 | 5.394   |      | .109  | 50 |        |       |        |       |        |      |      |    |
| 91174  | 2.42   |        | 1.721 | 8.694   |      | .152  | 50 |        |       |        |       |        |      |      |    |
| 91175  | .83    |        | 1.703 | 10.204  |      | .187  | 50 |        |       |        |       |        |      |      |    |
| 91176  | .40    |        | 1.688 | 9.851   |      | .195  | 50 |        |       |        |       |        |      |      |    |
| 91177  | .07    |        | 1.692 | 8.814   |      | .202  | 50 |        |       |        |       |        |      |      |    |
| 91178  | .08    |        | 1.680 | -3.855  |      | .207  | 50 |        |       |        |       |        |      |      |    |
| 91179  | .01    |        | 1.727 | 12.021  |      | .212  | 50 |        |       |        |       |        |      |      |    |
| 91180  |        |        | 1.731 | 9.285   |      | .206  | 50 |        |       |        |       |        |      |      |    |
| 91181  | 253.04 |        | 2.005 | .443    |      | .033  | 70 |        |       |        |       |        |      |      |    |
| 91182  | 177.84 |        | 1.947 | .607    |      | .038  | 70 |        |       |        |       |        |      |      |    |
| 91183  | 136.73 |        | 1.962 | .761    |      | .041  | 70 |        |       |        |       |        |      |      |    |
| 91184  | 84.31  |        | 1.959 | 1.132   |      | .043  | 70 |        |       |        |       |        |      |      |    |
| 91185  | 39.80  |        | 1.880 | 1.961   |      | .068  | 70 |        |       |        |       |        |      |      |    |
| 91186  | 11.79  |        | 1.817 | 4.011   |      | .114  | 70 |        |       |        |       |        |      |      |    |

DISTRIBUTION-COEFFICIENTS OF U(IV)

| AQUEOUS HNO3 FROM .00 TO .95 |                    |                    |              |         |         | AQUEOUS HNO3 FROM .95 TO 1.25 |                    |                    |              |         |         |
|------------------------------|--------------------|--------------------|--------------|---------|---------|-------------------------------|--------------------|--------------------|--------------|---------|---------|
| SOURCE                       | U(VI)-AQU<br>(G/L) | U(IV)-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-U(IV) | SOURCE                        | U(VI)-AQU<br>(G/L) | U(IV)-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-U(IV) |
| 50122                        |                    | .58                | .870         |         | .288    | 50124                         |                    | 2.55               | 1.060        |         | .561    |
| 50131                        |                    | .64                | .580         |         | .204    | 50125                         |                    | 4.05               | 1.110        |         | .559    |
| 50123                        |                    | 1.24               | .910         |         | .385    | 50126                         |                    | 5.57               | 1.090        |         | .564    |
| 50132                        |                    | 1.50               | .610         |         | .254    | 50127                         |                    | 10.50              | 1.030        |         | .617    |
| 50133                        |                    | 3.31               | .660         |         | .223    | 50128                         |                    | 12.78              | 1.110        |         | .639    |
| 50134                        |                    | 5.02               | .640         |         | .256    | 50129                         |                    | 15.52              | 1.170        |         | .644    |
| 50135                        |                    | 6.64               | .630         |         | .287    |                               |                    |                    |              |         |         |
| 50101                        |                    | 10.40              | .580         |         | .348    | 50155                         | 11.38              | 20.71              | 1.190        | 4.611   | .209    |
| 50136                        |                    | 12.64              | .670         |         | .407    | 50156                         | 18.68              | 21.68              | 1.230        | 3.619   | .095    |
| 50137                        |                    | 15.76              | .710         |         | .409    | 50177                         | 13.09              | 48.58              | 1.000        | 3.927   | .219    |
| 50138                        |                    | 18.14              | .710         |         | .444    | 50178                         | 18.09              | 50.60              | .990         | 3.539   | .153    |
| 50102                        |                    | 21.04              | .770         |         | .555    | 50179                         | 24.28              | 53.07              | 1.020        | 3.108   | .108    |
|                              |                    |                    |              |         |         | 50193                         | 13.59              | 63.90              | 1.180        | 4.249   | .198    |
| 50189                        | 15.57              | 43.22              | .750         | 3.425   | .172    | 50194                         | 18.92              | 67.12              | 1.090        | 3.761   | .131    |
| 50190                        | 24.28              | 44.74              | .740         | 2.814   | .110    | 50217                         | 20.33              | 78.37              | 1.050        | 3.361   | .145    |
| 50205                        | 20.90              | 67.35              | .780         | 3.200   | .123    |                               |                    |                    |              |         |         |
| 50209                        | 21.54              | 84.49              | .840         | 3.381   | .120    | 50157                         | 28.58              | 22.09              | 1.070        | 2.732   | .068    |
|                              |                    |                    |              |         |         | 50195                         | 26.89              | 69.02              | 1.210        | 3.004   | .096    |
| 50163                        | 38.75              | 24.75              | .760         | 2.035   | .055    | 50218                         | 26.73              | 81.25              | 1.010        | 2.917   | .116    |
| 50191                        | 33.80              | 45.55              | .750         | 2.320   | .076    | 50219                         | 34.87              | 82.11              | 1.050        | 2.485   | .080    |
| 50206                        | 27.51              | 70.57              | .780         | 2.824   | .082    |                               |                    |                    |              |         |         |
| 50207                        | 37.98              | 72.00              | .780         | 2.337   | .054    | 50158                         | 79.28              | 23.70              | 1.240        | 1.308   | .013    |
| 50210                        | 28.94              | 87.04              | .800         | 2.903   | .074    | 50196                         | 51.41              | 72.59              | 1.090        | 1.921   | .044    |
| 50211                        | 39.37              | 89.63              | .810         | 2.366   | .045    | 50220                         | 59.60              | 80.44              | 1.070        | 1.723   | .028    |
|                              |                    |                    |              |         |         |                               |                    |                    |              |         |         |
| 50165                        | 94.49              | 24.51              | .740         | 1.064   | .017    |                               |                    |                    |              |         |         |
| 50164                        | 67.40              | 24.59              | .750         | 1.381   | .026    |                               |                    |                    |              |         |         |
| 50192                        | 57.29              | 45.70              | .780         | 1.635   | .044    |                               |                    |                    |              |         |         |
| 50208                        | 67.83              | 73.16              | .790         | 1.494   | .023    |                               |                    |                    |              |         |         |
| 50212                        | 69.61              | 91.39              | .840         | 1.497   | .019    |                               |                    |                    |              |         |         |

DISTRIBUTION-COEFFICIENTS OF U(IV)

| AQUEOUS HNO3 FROM 1.25 TO 2.25 (1) |                    |                    |              |         |         | AQUEOUS HNO3 FROM 1.25 TO 2.25 (2) |                    |                    |              |         |         |
|------------------------------------|--------------------|--------------------|--------------|---------|---------|------------------------------------|--------------------|--------------------|--------------|---------|---------|
| SOURCE                             | U(VI)-AQU<br>(G/L) | U(IV)-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-U(IV) | SOURCE                             | U(VI)-AQU<br>(G/L) | U(IV)-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-U(IV) |
| 50114                              |                    | .45                | 1.740        |         | 1.105   | 50213                              | 14.83              | 73.16              | 1.750        | 3.637   | .284    |
| 50115                              |                    | 1.02               | 1.750        |         | 1.023   | 50214                              | 19.59              | 77.21              | 1.420        | 3.354   | .197    |
| 50116                              |                    | 1.76               | 1.760        |         | 1.149   | 50215                              | 24.11              | 83.87              | 1.560        | 3.248   | .140    |
| 50117                              |                    | 2.76               | 1.740        |         | 1.129   |                                    |                    |                    |              |         |         |
| 50107                              |                    | 4.05               | 1.860        |         | 1.124   | 50188                              | 32.61              | 45.22              | 2.100        | 2.927   | .074    |
| 50108                              |                    | 4.28               | 1.690        |         | 1.161   | 50184                              | 37.91              | 46.27              | 1.510        | 2.482   | .061    |
| 50105                              |                    | 4.36               | 1.720        |         | 1.137   | 50200                              | 37.75              | 68.23              | 1.460        | 2.491   | .059    |
| 50118                              |                    | 4.40               | 1.720        |         | 1.076   | 50204                              | 34.75              | 70.21              | 2.060        | 2.763   | .071    |
| 50104                              |                    | 4.40               | 1.780        |         | 1.130   | 50216                              | 41.08              | 87.92              | 1.570        | 2.370   | .064    |
| 50119                              |                    | 8.85               | 1.770        |         | 1.070   |                                    |                    |                    |              |         |         |
| 50106                              |                    | 10.88              | 1.810        |         | 1.101   | 50162                              | 71.78              | 24.18              | 1.860        | 1.455   | .022    |
| 50120                              |                    | 11.00              | 1.740        |         | 1.050   | 50224                              | 73.92              | 24.87              | 1.740        | 1.442   | .014    |
| 50121                              |                    | 12.78              | 1.780        |         | 1.047   | 50180                              | 61.64              | 59.26              | 1.360        | 1.660   | .030    |
| 50159                              | 8.50               | 18.52              | 1.860        | 6.485   | .290    |                                    |                    |                    |              |         |         |
| 50161                              | 6.69               | 20.30              | 1.840        | 6.758   | .403    |                                    |                    |                    |              |         |         |
| 50185                              | 7.93               | 35.87              | 2.090        | 6.667   | .345    |                                    |                    |                    |              |         |         |
| 50201                              | 8.04               | 55.22              | 2.220        | 5.473   | .367    |                                    |                    |                    |              |         |         |
| 50160                              | 12.59              | 20.47              | 1.950        | 5.231   | .202    |                                    |                    |                    |              |         |         |
| 50181                              | 10.38              | 37.60              | 1.570        | 4.982   | .292    |                                    |                    |                    |              |         |         |
| 50186                              | 13.04              | 38.75              | 1.970        | 5.164   | .225    |                                    |                    |                    |              |         |         |
| 50182                              | 14.95              | 40.06              | 1.510        | 4.299   | .201    |                                    |                    |                    |              |         |         |
| 50187                              | 19.30              | 41.79              | 1.950        | 4.059   | .154    |                                    |                    |                    |              |         |         |
| 50183                              | 19.87              | 42.51              | 1.480        | 3.832   | .135    |                                    |                    |                    |              |         |         |
| 50197                              | 10.42              | 58.31              | 1.610        | 4.893   | .295    |                                    |                    |                    |              |         |         |
| 50202                              | 11.57              | 60.45              | 2.100        | 5.632   | .242    |                                    |                    |                    |              |         |         |
| 50198                              | 12.71              | 62.17              | 1.560        | 5.000   | .205    |                                    |                    |                    |              |         |         |
| 50199                              | 18.73              | 63.07              | 1.580        | 4.097   | .131    |                                    |                    |                    |              |         |         |
| 50203                              | 16.04              | 65.69              | 2.100        | 4.852   | .155    |                                    |                    |                    |              |         |         |

DISTRIBUTION-COEFFICIENTS OF U(IV)

| AQUEOUS HNO3 FROM 2.25 TO 3.60 |                    |                    |              |         |         | AQUEOUS HNO3 FROM 3.60 TO 6.00 |                    |                    |              |         |         |
|--------------------------------|--------------------|--------------------|--------------|---------|---------|--------------------------------|--------------------|--------------------|--------------|---------|---------|
| SOURCE                         | U(VI)-AQU<br>(G/L) | U(IV)-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-U(IV) | SOURCE                         | U(VI)-AQU<br>(G/L) | U(IV)-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-U(IV) |
| 50147                          |                    | .40                | 2.700        |         | 1.882   | 50139                          |                    | .38                | 4.190        |         | 2.750   |
| 50148                          |                    | .83                | 2.660        |         | 1.771   | 50140                          |                    | .62                | 4.200        |         | 2.962   |
| 50149                          |                    | 1.69               | 2.670        |         | 1.746   | 50141                          |                    | 1.24               | 4.230        |         | 2.731   |
| 50150                          |                    | 2.48               | 2.650        |         | 1.731   | 50142                          |                    | 1.83               | 4.280        |         | 2.792   |
| 50111                          |                    | 2.83               | 3.560        |         | 2.429   | 50113                          |                    | 1.91               | 5.830        |         | 4.177   |
| 50109                          |                    | 3.24               | 2.930        |         | 1.875   | 50103                          |                    | 2.19               | 4.650        |         | 3.696   |
| 50151                          |                    | 3.50               | 2.660        |         | 1.714   | 50143                          |                    | 2.52               | 4.330        |         | 2.783   |
| 50110                          |                    | 3.62               | 2.800        |         | 1.717   | 50144                          |                    | 5.12               | 4.330        |         | 2.577   |
| 50112                          |                    | 3.67               | 2.590        |         | 1.545   | 50145                          |                    | 6.16               | 4.350        |         | 2.645   |
| 50152                          |                    | 6.85               | 2.700        |         | 1.681   | 50146                          |                    | 7.24               | 4.360        |         | 2.572   |
| 50153                          |                    | 8.43               | 2.650        |         | 1.624   |                                |                    |                    |              |         |         |
| 50154                          |                    | 9.59               | 2.710        |         | 1.650   | 50174                          | 6.85               | 26.75              | 4.370        | 7.958   | .630    |
| 50130                          |                    | 13.64              | 2.580        |         | .635    |                                |                    |                    |              |         |         |
|                                |                    |                    |              |         |         | 50221                          | 12.00              | 35.70              | 4.610        | 6.131   | .378    |
| 50166                          | 6.33               | 17.16              | 3.020        | 8.538   | .516    | 50222                          | 20.73              | 39.17              | 4.960        | 4.202   | .252    |
| 50167                          | 10.00              | 19.49              | 3.090        | 7.017   | .316    | 50175                          | 21.92              | 47.60              | 4.550        | 4.017   | .190    |
| 50170                          | 7.64               | 28.56              | 3.090        | 6.866   | .537    |                                |                    |                    |              |         |         |
|                                |                    |                    |              |         |         | 50176                          | 100.67             | 41.20              | 4.770        | 1.075   | .092    |
| 50168                          | 14.38              | 21.11              | 3.150        | 5.674   | .210    | 50223                          | 69.90              | 45.10              | 5.170        | 1.530   | .089    |
| 50171                          | 11.40              | 32.39              | 3.140        | 5.975   | .342    |                                |                    |                    |              |         |         |
| 50172                          | 17.28              | 35.70              | 3.260        | 4.817   | .206    |                                |                    |                    |              |         |         |
|                                |                    |                    |              |         |         |                                |                    |                    |              |         |         |
| 50169                          | 56.57              | 26.32              | 3.550        | 1.866   | .053    |                                |                    |                    |              |         |         |
| 50173                          | 62.64              | 41.34              | 3.260        | 1.660   | .097    |                                |                    |                    |              |         |         |

DISTRIBUTION DATA OF U(VI), PU(IV), PU(III) AND HNO<sub>3</sub> WITH N<sub>2</sub>H<sub>5</sub><sup>+</sup> AT 35 DEG. C

AQUEOUS HNO<sub>3</sub> FROM 0 TO 0.25 M

| SOURCE | AQUEOUS EQUILIBRIUM CONCENTRATIONS |        |                  |         |                               | D-<br>U(VI) | D-<br>PU(IV) | D-<br>HNO <sub>3</sub> | D-<br>PU(III) |
|--------|------------------------------------|--------|------------------|---------|-------------------------------|-------------|--------------|------------------------|---------------|
|        | U(VI)                              | PU(IV) | HNO <sub>3</sub> | PU(III) | N <sub>2</sub> H <sub>5</sub> |             |              |                        |               |
| 50018  |                                    |        | .18              | 4.88    | .167                          |             |              | .144                   | .009          |
| 50019  |                                    |        | .18              | 4.91    | .167                          |             |              | .141                   | .007          |
| 50022  |                                    |        | .19              | 18.00   | .124                          |             |              | .270                   | .019          |
| 50023  |                                    |        | .21              | 18.20   | .124                          |             |              | .240                   | .016          |
| 50058  | .89                                |        | .11              |         | .086                          | .65         |              | .104                   |               |
| 50061  | .99                                |        | .18              |         | .133                          | 1.12        |              | .097                   |               |
| 50015  |                                    |        | .18              |         | .348                          |             |              | .144                   |               |
| 50073  | .81                                |        | .13              | 9.49    | .218                          | 2.33        |              | .200                   | .016          |
| 50059  | 1.13                               |        | .13              |         | .233                          | 1.53        |              | .122                   |               |
| 50055  | 1.20                               |        | .18              |         | .313                          | 2.40        |              | .144                   |               |
| 50069  |                                    |        | .18              | 6.83    | .789                          |             |              | .292                   | .031          |
| 50067  |                                    |        | .17              | 29.50   | .518                          |             |              | .523                   | .034          |
| 50060  | 1.07                               |        | .10              |         | .491                          | 2.89        |              | .156                   |               |
| 50062  | 1.14                               |        | .19              |         | .422                          | 3.33        |              | .161                   |               |

DISTRIBUTION DATA OF U(VI), PU(IV), PU(III) AND HNO<sub>3</sub> WITH N<sub>2</sub>H<sub>5</sub><sup>+</sup> AT 35 DEG. C

AQUEOUS HNO<sub>3</sub> FROM 0.25 TO 0.38 M

| SOURCE | AQUEOUS EQUILIBRIUM CONCENTRATIONS |        |                  |         |                               | D-<br>U(VI) | D-<br>PU(IV) | D-<br>HNO <sub>3</sub> | D-<br>PU(III) |
|--------|------------------------------------|--------|------------------|---------|-------------------------------|-------------|--------------|------------------------|---------------|
|        | U(VI)                              | PU(IV) | HNO <sub>3</sub> | PU(III) | N <sub>2</sub> H <sub>5</sub> |             |              |                        |               |
| 50012  |                                    |        | .37              |         | .135                          |             |              | .143                   |               |
| 50020  |                                    |        | .33              | 4.88    | .161                          |             |              | .172                   | .010          |
| 50021  |                                    |        | .33              | 4.92    | .161                          |             |              | .176                   | .010          |
| 50050  |                                    | 3.30   | .33              | 13.52   | .183                          |             | 2.10         | .218                   | .016          |
| 50049  |                                    | 3.69   | .35              | 13.99   | .073                          |             | 1.82         | .217                   | .015          |
| 50046  |                                    | 4.07   | .32              | 8.87    | .150                          |             | 1.46         | .266                   | .012          |
| 50043  |                                    | 4.38   | .31              | 3.50    | .158                          |             | .99          | .165                   | .009          |
| 50052  |                                    | 4.99   | .34              | 7.15    | .072                          |             | 1.15         | .203                   | .010          |
| 50040  |                                    | 5.23   | .34              | .59     | .148                          |             | .86          | .162                   | .008          |
| 50063  | 1.09                               |        | .35              |         | .101                          | 2.17        |              | .131                   |               |
| 50013  |                                    |        | .32              |         | .341                          |             |              | .172                   |               |
| 50047  |                                    | 3.16   | .33              | 9.00    | .306                          |             | 2.08         | .279                   | .016          |
| 50044  |                                    | 3.64   | .29              | 3.76    | .279                          |             | 1.29         | .210                   | .011          |
| 50041  |                                    | 3.81   | .34              | 1.02    | .346                          |             | 1.43         | .179                   | .012          |
| 50053  |                                    | 3.84   | .32              | 7.67    | .241                          |             | 1.65         | .216                   | .013          |
| 50071  | .47                                |        | .29              | 6.18    | .247                          | 4.45        |              | .208                   | .015          |
| 50056  | 1.08                               |        | .32              |         | .327                          | 3.36        |              | .159                   |               |
| 50072  | 2.17                               |        | .37              | 18.00   | .322                          | 5.21        |              | .254                   | .021          |
| 50014  |                                    |        | .31              |         | .631                          |             |              | .210                   |               |
| 50068  |                                    |        | .30              | 27.90   | .695                          |             |              | .507                   | .044          |
| 50045  |                                    | 2.25   | .29              | 3.94    | .603                          |             | 2.55         | .214                   | .019          |
| 50048  |                                    | 2.37   | .34              | 8.87    | .508                          |             | 3.03         | .300                   | .021          |
| 50051  |                                    | 2.44   | .32              | 13.50   | .397                          |             | 3.05         | .236                   | .021          |
| 50042  |                                    | 2.68   | .33              | 1.26    | .595                          |             | 2.36         | .209                   | .018          |
| 50054  |                                    | 3.15   | .32              | 7.70    | .372                          |             | 2.15         | .219                   | .016          |
| 50064  | 1.04                               |        | .37              |         | .473                          | 5.15        |              | .181                   |               |

DISTRIBUTION DATA OF U(VI), PU(IV), PU(III) AND HNO<sub>3</sub> WITH N<sub>2</sub>H<sub>5</sub><sup>+</sup> AT 35 DEG. C

AQUEOUS HNO<sub>3</sub> FROM 0.38 TO 0.61 M

| SOURCE | AQUEOUS EQUILIBRIUM CONCENTRATIONS |        |                  |         |                               | D-<br>U(VI) | D-<br>PU(IV) | D-<br>HNO <sub>3</sub> | D-<br>PU(III) |
|--------|------------------------------------|--------|------------------|---------|-------------------------------|-------------|--------------|------------------------|---------------|
|        | U(VI)                              | PU(IV) | HNO <sub>3</sub> | PU(III) | N <sub>2</sub> H <sub>5</sub> |             |              |                        |               |
| 50011  |                                    |        | .39              |         |                               |             |              | .128                   |               |
| 50016  |                                    |        | .51              |         | .126                          |             |              | .167                   |               |
| 50025  |                                    |        | .41              | 18.00   | .103                          |             |              | .249                   | .026          |
| 50024  |                                    |        | .41              | 18.10   | .103                          |             |              | .246                   | .025          |
| 50027  |                                    |        | .41              | 35.10   | .093                          |             |              | .340                   | .040          |
| 50026  |                                    |        | .40              | 35.80   | .060                          |             |              | .355                   | .045          |
| 50030  |                                    | 1.55   | .50              | 35.02   | .143                          |             | 6.18         | .342                   | .029          |
| 50034  |                                    | 1.81   | .56              | 33.68   | .130                          |             | 6.02         | .304                   | .027          |
| 50033  |                                    | 2.11   | .55              | 26.03   | .111                          |             | 4.56         | .291                   | .024          |
| 50029  |                                    | 2.41   | .58              | 17.40   | .144                          |             | 3.59         | .255                   | .022          |
| 50032  |                                    | 3.36   | .48              | 11.57   | .114                          |             | 2.24         | .250                   | .017          |
| 50035  |                                    | 3.73   | .50              | 7.66    | .122                          |             | 1.93         | .220                   | .015          |
| 50037  |                                    | 3.73   | .55              | 5.40    | .121                          |             | 1.89         | .175                   | .015          |
| 50039  |                                    | 3.80   | .57              | 2.99    | .140                          |             | 1.79         | .182                   | .014          |
| 50028  |                                    | 3.82   | .52              | 5.23    | .148                          |             | 1.85         | .200                   | .014          |
| 50031  |                                    | 3.95   | .60              | .32     | .171                          |             | 1.75         | .173                   | .014          |
| 50038  |                                    | 3.95   | .55              | 2.63    | .140                          |             | 1.69         | .178                   | .013          |
| 50036  |                                    | 4.10   | .58              | .29     | .142                          |             | 1.58         | .160                   | .013          |
| 50057  | 1.17                               |        | .50              |         | .110                          | 3.27        |              | .158                   |               |
| 50065  | 1.04                               |        | .55              |         | .333                          | 5.25        |              | .187                   |               |
| 50017  |                                    |        | .49              |         | .624                          |             |              | .220                   |               |
| 50070  |                                    |        | .43              | 6.48    | .695                          |             |              | .312                   | .039          |
| 50066  | 1.10                               |        | .53              |         | .487                          | 6.26        |              | .187                   |               |

DISTRIBUTION-COEFFICIENTS OF NP(IV) AND NP(VI)

| AQUEOUS HNO3 FROM 0 TO 0.2 M |                |              |         |          | AQUEOUS HNO3 FROM 0.2 TO 0.75 M (1) |        |                |              |         |          |          |
|------------------------------|----------------|--------------|---------|----------|-------------------------------------|--------|----------------|--------------|---------|----------|----------|
| SOURCE                       | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI)                            | SOURCE | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) |
| 57382                        |                | .094         |         | .002     |                                     | 57383  |                | .272         |         | .015     |          |
| 57385                        |                | .184         |         | .004     |                                     | 57381  |                | .355         |         | .039     |          |
| 57386                        |                | .184         |         | .004     |                                     | 57384  |                | .355         |         | .039     |          |
| 57301                        |                | .184         |         |          | .177                                | 57387  |                | .437         |         | .264     |          |
| 57302                        |                | .184         |         |          | .575                                | 57388  |                | .437         |         | .260     |          |
| 57318                        | 1.87           | .193         |         |          | .610                                | 57389  |                | .437         |         | .256     |          |
| 57319                        | 3.64           | .193         |         |          | .623                                | 57392  |                | .437         |         | .212     |          |
| 57320                        | 8.62           | .193         |         |          | .703                                | 57303  |                | .437         |         |          | 2.060    |
| 57321                        | 16.11          | .193         |         |          | .757                                | 57304  |                | .437         |         |          | 1.740    |
| 57322                        | 29.99          | .194         |         |          | .796                                | 17301  |                | .490         |         | .150     |          |
| 57323                        | 60.21          | .195         |         |          | .749                                | 17302  |                | .490         |         | .113     |          |
| 57324                        | 95.68          | .196         |         |          | .637                                | 38001  |                | .500         |         | .200     |          |
| 57325                        | 135.90         | .197         |         |          | .524                                | 38041  |                | .500         |         |          | 2.200    |
| 57326                        | 178.98         | .197         |         |          | .414                                | 57390  |                | .517         |         | .395     |          |
|                              |                |              |         |          |                                     | 57391  |                | .517         |         | .386     |          |
|                              |                |              |         |          |                                     | 17201  |                | .710         |         |          | 3.780    |
|                              |                |              |         |          |                                     | 57309  | .67            | .438         |         |          | 1.700    |
|                              |                |              |         |          |                                     | 57399  | 1.35           | .439         |         | .132     |          |
|                              |                |              |         |          |                                     | 57400  | 1.35           | .439         |         | .135     |          |
|                              |                |              |         |          |                                     | 57401  | 1.35           | .439         |         | .135     |          |
|                              |                |              |         |          |                                     | 57310  | 1.35           | .439         |         |          | 1.876    |
|                              |                |              |         |          |                                     | 57402  | 3.38           | .441         |         | .064     |          |
|                              |                |              |         |          |                                     | 57403  | 3.38           | .441         |         | .063     |          |
|                              |                |              |         |          |                                     | 57404  | 3.38           | .441         |         | .061     |          |
|                              |                |              |         |          |                                     | 57311  | 3.38           | .441         |         |          | 1.813    |
|                              |                |              |         |          |                                     | 57405  | 6.88           | .444         |         | .057     |          |
|                              |                |              |         |          |                                     | 57406  | 6.88           | .444         |         | .059     |          |
|                              |                |              |         |          |                                     | 57407  | 6.88           | .444         |         | .061     |          |



DISTRIBUTION-COEFFICIENTS OF NP(IV) AND NP(VI)

AQUEOUS HNO3 FROM 0.2 TO 0.75 M (2)

AQUEOUS HNO3 FROM 0.75 TO 1.2 M (1)

| SOURCE | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) | SOURCE | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) |
|--------|----------------|--------------|---------|----------|----------|--------|----------------|--------------|---------|----------|----------|
| 57312  | 6.88           | .444         |         |          | 1.637    | 57393  |                | .830         |         | .899     |          |
|        |                |              |         |          |          | 57394  |                | .830         |         | .863     |          |
| 57408  | 14.49          | .452         |         | .030     |          | 57305  |                | .830         |         |          | 4.790    |
| 57409  | 14.49          | .452         |         | .033     |          | 57306  |                | .830         |         |          | 4.430    |
| 57410  | 14.49          | .452         |         | .036     |          | 17012  |                | .850         |         | .251     |          |
| 57313  | 14.49          | .452         |         |          | 1.372    | 17001  |                | .870         |         |          | 4.470    |
|        |                |              |         |          |          | 17303  |                | .920         |         | .620     |          |
| 57411  | 33.65          | .465         |         | .042     |          | 17304  |                | .920         |         | .620     |          |
| 57412  | 33.65          | .465         |         | .043     |          | 82081  |                | 1.000        |         | 1.100    |          |
| 57413  | 33.65          | .465         |         | .044     |          | 38002  |                | 1.000        |         | .807     |          |
| 57314  | 33.65          | .465         |         |          | 1.008    | 38003  |                | 1.000        |         | .750     |          |
|        |                |              |         |          |          | 17013  |                | 1.000        |         | 1.400    |          |
| 57414  | 59.74          | .475         |         | .041     |          | 82047  |                | 1.000        |         | 1.500    |          |
| 57415  | 59.74          | .475         |         | .035     |          | 17102  |                | 1.000        |         | .240     |          |
| 57416  | 59.74          | .475         |         | .044     |          | 38042  |                | 1.000        |         |          | 5.300    |
| 57315  | 59.74          | .475         |         |          | .666     | 82061  |                | 1.000        |         |          | 4.300    |
| 57379  | 59.74          | .475         |         |          | .732     | 82071  |                | 1.000        |         |          | 4.100    |
| 57417  | 93.06          | .482         |         | .035     |          | 82171  |                | 1.000        |         |          | 4.400    |
| 57418  | 93.06          | .482         |         | .034     |          | 17121  |                | 1.000        |         |          | 4.500    |
| 57419  | 93.06          | .482         |         | .032     |          | 17202  |                | 1.100        |         |          | 6.210    |
| 57316  | 93.06          | .482         |         |          | .542     |        |                |              |         |          |          |
| 57420  | 131.85         | .487         |         | .031     |          | 57327  | .32            | .832         |         |          | 3.880    |
| 57421  | 131.85         | .487         |         | .030     |          | 57328  | .64            | .835         |         |          | 4.691    |
| 57422  | 131.85         | .487         |         | .028     |          |        |                |              |         |          |          |
| 57317  | 131.85         | .487         |         |          | .400     | 57329  | 1.69           | .843         |         |          | 4.599    |
|        |                |              |         |          |          | 57330  | 3.69           | .856         |         |          | 3.942    |
|        |                |              |         |          |          | 38004  | 4.04           | 1.000        |         | .480     |          |
|        |                |              |         |          |          | 38043  | 4.67           | 1.000        |         |          | 3.210    |
|        |                |              |         |          |          | 38005  | 8.37           | 1.000        |         | .376     |          |
|        |                |              |         |          |          | 38044  | 8.41           | 1.000        |         |          | 2.620    |

DISTRIBUTION-COEFFICIENTS OF NP(IV) AND NP(VI)

| AQUEOUS HNO3 FROM 0.75 TO 1.2 M (2) |                |              |         |          |          | AQUEOUS HNO3 FROM 1.2 TO 1.5 M |                |              |         |          |          |
|-------------------------------------|----------------|--------------|---------|----------|----------|--------------------------------|----------------|--------------|---------|----------|----------|
| SOURCE                              | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) | SOURCE                         | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) |
| 82001                               | 8.50           | .900         | 3.882   | .190     | 2.450    | 57395                          |                | 1.220        |         | 1.510    |          |
| 82101                               | 8.50           | .900         | 3.882   | .190     | 2.410    | 57396                          |                | 1.220        |         | 1.413    |          |
| 57331                               | 8.88           | .882         |         |          | 2.843    | 57397                          |                | 1.220        |         | 1.213    |          |
|                                     |                |              |         |          |          | 57398                          |                | 1.220        |         | 1.233    |          |
| 82002                               | 25.50          | .930         | 2.275   | .100     | 1.600    | 57307                          |                | 1.220        |         |          | 7.528    |
| 82102                               | 25.50          | .930         | 2.275   | .094     | 1.480    | 57308                          |                | 1.220        |         |          | 8.370    |
| 57332                               | 25.70          | .924         |         |          | 1.803    |                                |                |              |         |          |          |
| 38006                               | 29.00          | 1.000        |         | .200     |          | 57336                          | .20            | 1.225        |         |          | 8.040    |
| 38045                               | 30.50          | 1.000        |         |          | 1.260    | 57337                          | .42            | 1.230        |         |          | 7.414    |
| 38007                               | 42.80          | 1.000        |         | .150     |          | 57423                          | .42            | 1.230        | 1.193   |          |          |
| 82003                               | 47.00          | .960         | 1.447   | .058     | 1.070    |                                |                |              |         |          |          |
| 82103                               | 47.00          | .960         | 1.447   | .057     | 1.050    | 57424                          | 1.11           | 1.243        |         | 1.082    |          |
| 38046                               | 48.30          | 1.000        |         |          | .940     | 57338                          | 1.11           | 1.243        |         |          | 6.722    |
|                                     |                |              |         |          |          | 57425                          | 2.48           | 1.266        |         | .933     |          |
| 57333                               | 53.07          | .951         |         |          | .884     | 57339                          | 2.48           | 1.266        |         |          | 5.826    |
| 82004                               | 74.00          | .970         | 1.216   | .046     | .710     | 57426                          | 6.26           | 1.310        |         | .617     |          |
| 82104                               | 74.00          | .970         | 1.216   | .047     | .710     | 57340                          | 6.26           | 1.310        |         |          | 4.464    |
| 38008                               | 88.00          | 1.000        |         | .065     |          |                                |                |              |         |          |          |
| 57334                               | 88.54          | .966         |         |          | .611     | 57427                          | 20.97          | 1.384        |         | .225     |          |
| 38047                               | 96.75          | 1.000        |         |          | .540     | 57341                          | 20.97          | 1.384        |         |          | 2.444    |
| 82005                               | 108.00         | .980         | .935    | .038     | .510     |                                |                |              |         |          |          |
| 82105                               | 108.00         | .980         | .935    | .038     | .500     | 57428                          | 48.55          | 1.430        |         | .106     |          |
| 38009                               | 121.20         | 1.000        |         | .035     |          | 57429                          | 48.55          | 1.430        |         | .112     |          |
| 57335                               | 129.23         | .976         |         |          | .448     | 57342                          | 48.55          | 1.430        |         |          | 1.271    |
| 82006                               | 180.00         | .990         | .617    | .035     | .270     | 57343                          | 48.55          | 1.430        |         |          | 1.045    |
| 82106                               | 180.00         | .990         | .617    | .032     | .300     |                                |                |              |         |          |          |
| 38048                               | 210.60         | 1.000        |         |          | .240     | 57430                          | 85.68          | 1.453        |         | .067     |          |
|                                     |                |              |         |          |          | 57344                          | 85.68          | 1.453        |         |          | .723     |
|                                     |                |              |         |          |          | 57431                          | 127.81         | 1.466        |         | .048     |          |
|                                     |                |              |         |          |          | 57345                          | 127.81         | 1.466        |         |          | .495     |

DISTRIBUTION-COEFFICIENTS OF NP(IV) AND NP(VI)

| AQUEOUS HNO3 FROM 1.5 TO 2.2 M (1) |                |              |         |          |          | AQUEOUS HNO3 FROM 1.5 TO 2.2 M (2) |                |              |         |          |          |
|------------------------------------|----------------|--------------|---------|----------|----------|------------------------------------|----------------|--------------|---------|----------|----------|
| SOURCE                             | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) | SOURCE                             | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) |
| 57432                              |                | 1.620        |         | 2.000    |          | 57352                              | .82            | 1.653        |         |          | 8.662    |
| 57433                              |                | 1.620        |         | 1.958    |          |                                    |                |              |         |          |          |
| 57434                              |                | 1.620        |         | 1.922    |          | 38050                              | 1.83           | 2.000        |         |          | 7.030    |
| 57435                              |                | 1.620        |         | 2.384    |          | 57442                              | 1.85           | 1.683        |         | 1.482    |          |
| 57436                              |                | 1.620        |         | 2.462    |          | 57353                              | 1.85           | 1.683        |         |          | 7.706    |
| 57346                              |                | 1.620        |         |          | 9.643    | 38012                              | 1.88           | 2.000        |         | 1.358    |          |
| 57347                              |                | 1.620        |         |          | 9.120    | 38013                              | 3.13           | 2.000        |         | 1.239    |          |
| 17014                              |                | 1.660        |         | 1.096    |          | 38051                              | 3.62           | 2.000        |         |          | 5.900    |
| 17002                              |                | 1.660        |         |          | 10.200   | 82031                              | 4.20           | 1.780        | 9.119   | .560     | 4.260    |
| 17305                              |                | 1.730        |         | 2.050    |          | 82131                              | 4.20           | 1.780        | 9.119   | .550     | 3.810    |
| 17306                              |                | 1.740        |         | 1.620    |          | 57443                              | 4.81           | 1.744        |         | .938     |          |
| 82082                              |                | 2.000        |         | 2.000    |          | 57354                              | 4.81           | 1.744        |         |          | 5.458    |
| 38010                              |                | 2.000        |         | 2.036    |          |                                    |                |              |         |          |          |
| 38011                              |                | 2.000        |         | 2.100    |          | 38014                              | 12.12          | 2.000        |         | .453     |          |
| 17015                              |                | 2.000        |         | 2.260    |          | 38052                              | 12.27          | 2.000        |         |          | 3.210    |
| 17016                              |                | 2.000        |         | 2.040    |          | 82032                              | 15.70          | 1.900        | 4.522   | .220     | 2.490    |
| 82048                              |                | 2.000        |         | 2.300    |          | 82132                              | 15.70          | 1.900        | 4.522   | .220     | 2.220    |
| 17103                              |                | 2.000        |         | 1.100    |          | 57444                              | 17.99          | 1.850        |         | .316     |          |
| 38049                              |                | 2.000        |         |          | 12.500   | 57355                              | 17.99          | 1.850        |         |          | 2.407    |
| 17101                              |                | 2.000        |         |          | 10.200   | 38015                              | 23.40          | 2.000        |         | .193     |          |
| 17203                              |                | 2.000        |         |          | 10.940   |                                    |                |              |         |          |          |
| 82062                              |                | 2.000        |         |          | 8.700    | 38053                              | 28.20          | 2.000        |         |          | 1.510    |
| 82072                              |                | 2.000        |         |          | 7.800    | 82033                              | 33.70          | 1.960        | 2.641   | .110     | 1.280    |
| 82172                              |                | 2.000        |         |          | 9.700    | 82133                              | 33.70          | 1.960        | 2.641   | .100     | 1.200    |
| 17122                              |                | 2.000        |         |          | 10.000   | 82034                              | 45.00          | 1.980        | 2.111   | .088     | 1.070    |
|                                    |                |              |         |          |          | 82134                              | 45.00          | 1.980        | 2.111   | .090     | .940     |
| 57350                              | .15            | 1.630        |         |          | 8.940    | 57445                              | 45.70          | 1.910        |         | .121     |          |
| 57440                              | .31            | 1.634        |         | 2.174    |          | 57356                              | 45.70          | 1.910        |         |          | 1.079    |
| 57351                              | .31            | 1.634        |         |          | 9.000    | 57357                              | 45.70          | 1.910        |         |          | 1.132    |
| 57441                              | .82            | 1.653        |         | 1.805    |          |                                    |                |              |         |          |          |

DISTRIBUTION-COEFFICIENTS OF NP(IV) AND NP(VI)

AQUEOUS HNO3 FROM 1.5 TO 2.2 M (3)

| SOURCE | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) |
|--------|----------------|--------------|---------|----------|----------|
| 38054  | 59.50          | 2.000        |         |          | .796     |
| 82035  | 60.00          | 2.000        | 1.667   | .073     | .830     |
| 82135  | 60.00          | 2.000        | 1.667   | .076     | .730     |
| 38016  | 82.80          | 2.000        |         | .063     |          |
| 57446  | 84.01          | 1.940        |         | .071     |          |
| 57358  | 84.01          | 1.940        |         |          | .605     |
| 82036  | 115.00         | 2.020        | .922    | .058     | .560     |
| 82136  | 115.00         | 2.020        | .922    | .055     | .490     |
| 57447  | 126.85         | 1.960        |         | .050     |          |
| 57359  | 126.85         | 1.960        |         |          | .418     |
| 38017  | 178.30         | 2.000        |         | .034     |          |

AQUEOUS HNO3 FROM 2.2 TO 2.75 M

| SOURCE | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) |
|--------|----------------|--------------|---------|----------|----------|
| 57437  |                | 2.460        |         | 3.326    |          |
| 57438  |                | 2.460        |         | 3.000    |          |
| 57439  |                | 2.460        |         | 3.086    |          |
| 57348  |                | 2.460        |         |          | 14.200   |
| 57349  |                | 2.460        |         |          | 14.350   |
| 57369  |                | 2.460        |         |          | 14.720   |
| 17017  |                | 2.540        |         | 2.138    |          |
| 17003  |                | 2.540        |         |          | 15.100   |
| 17204  |                | 2.570        |         |          | 13.300   |
| 57360  | .10            | 2.470        |         |          | 13.400   |
| 57448  | .20            | 2.480        |         | 2.917    |          |
| 57361  | .20            | 2.480        |         |          | 13.340   |
| 57370  | .20            | 2.480        |         |          | 13.750   |
| 57449  | .53            | 2.500        |         | 2.705    |          |
| 57362  | .53            | 2.500        |         |          | 12.250   |
| 57371  | .53            | 2.500        |         |          | 13.250   |
| 57450  | 1.21           | 2.540        |         | 2.228    |          |
| 57363  | 1.21           | 2.545        |         |          | 10.680   |
| 57372  | 1.21           | 2.545        |         |          | 11.480   |
| 57451  | 3.28           | 2.630        |         | 1.472    |          |
| 57364  | 3.28           | 2.630        |         |          | 7.650    |
| 57373  | 3.28           | 2.630        |         |          | 8.200    |
| 82019  | 3.40           | 2.700        | 11.912  | 1.050    | 6.670    |
| 82119  | 3.40           | 2.700        | 11.912  | 1.100    | 7.140    |

DISTRIBUTION-COEFFICIENTS OF NP(IV) AND NP(VI)

| AQUEOUS HNO3 FROM 2.75 TO 3.2 M (1) |                |              |         |          |          | AQUEOUS HNO3 FROM 2.75 TO 3.2 M (2) |                |              |         |          |          |
|-------------------------------------|----------------|--------------|---------|----------|----------|-------------------------------------|----------------|--------------|---------|----------|----------|
| SOURCE                              | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) | SOURCE                              | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) |
| 82083                               |                | 3.000        |         | 3.100    |          | 82121                               | 29.20          | 2.980        | 3.253   | .190     | 1.320    |
| 38018                               |                | 3.000        |         | 3.423    |          | 82022                               | 40.50          | 3.010        | 2.444   | .130     | 1.180    |
| 38019                               |                | 3.000        |         | 3.500    |          | 82122                               | 40.50          | 3.010        | 2.444   | .140     | 1.080    |
| 17018                               |                | 3.000        |         | 2.950    |          | 57453                               | 42.36          | 2.880        |         | .198     |          |
| 82049                               |                | 3.000        |         | 3.500    |          | 57454                               | 42.36          | 2.880        |         | .186     |          |
| 17104                               |                | 3.000        |         | 2.200    |          | 57366                               | 42.36          | 2.880        |         |          | 1.090    |
| 38055                               |                | 3.000        |         |          | 17.000   | 57375                               | 42.36          | 2.880        |         |          | 1.220    |
| 17205                               |                | 3.000        |         |          | 14.700   | 57376                               | 42.36          | 2.880        |         |          | 1.136    |
| 82063                               |                | 3.000        |         |          | 13.300   | 38025                               | 46.40          | 3.000        |         | .373     |          |
| 82073                               |                | 3.000        |         |          | 10.900   | 38060                               | 48.40          | 3.000        |         |          | .977     |
| 82173                               |                | 3.000        |         |          | 13.500   |                                     |                |              |         |          |          |
| 17123                               |                | 3.000        |         |          | 15.000   | 82023                               | 62.00          | 3.030        | 1.653   | .100     | .830     |
|                                     |                |              |         |          |          | 82123                               | 62.00          | 3.030        | 1.653   | .100     | .730     |
| 38020                               | 1.19           | 3.000        |         | 2.995    |          | 38026                               | 72.70          | 3.000        |         | .138     |          |
| 38056                               | 1.19           | 3.000        |         |          | 11.600   | 57455                               | 82.11          | 2.920        |         | .114     |          |
| 38057                               | 2.36           | 3.000        |         |          | 8.030    | 57367                               | 82.11          | 2.920        |         |          | .580     |
| 38021                               | 2.85           | 3.000        |         | 2.327    |          | 57377                               | 82.11          | 2.920        |         |          | .616     |
| 38022                               | 4.41           | 3.000        |         | 1.405    |          | 82024                               | 101.20         | 3.050        | 1.059   | .076     | .480     |
| 38058                               | 7.92           | 3.000        |         |          | 4.090    | 82124                               | 101.20         | 3.050        | 1.059   | .088     | .420     |
| 38023                               | 8.51           | 3.000        |         | .963     |          | 57456                               | 125.90         | 2.940        |         | .091     |          |
| 82020                               | 10.00          | 2.870        | 7.150   | .390     | 3.390    | 57368                               | 125.90         | 2.940        |         |          | .400     |
| 82120                               | 10.00          | 2.870        | 7.150   | .440     | 3.680    | 57378                               | 125.90         | 2.940        |         |          | .400     |
|                                     |                |              |         |          |          | 38027                               | 182.00         | 3.000        |         | .039     |          |
| 57365                               | 14.18          | 2.790        |         |          | 2.820    |                                     |                |              |         |          |          |
| 57374                               | 14.18          | 2.790        |         |          | 3.366    |                                     |                |              |         |          |          |
| 57452                               | 14.28          | 2.790        |         | .559     |          |                                     |                |              |         |          |          |
| 38024                               | 16.44          | 3.000        |         | .677     |          |                                     |                |              |         |          |          |
| 38059                               | 17.70          | 3.000        |         |          | 2.480    |                                     |                |              |         |          |          |
| 82021                               | 29.20          | 2.980        | 3.253   | .170     | 1.520    |                                     |                |              |         |          |          |

DISTRIBUTION-COEFFICIENTS OF NP(IV) AND NP(VI)

| AQUEOUS HNO3 FROM 3.2 TO 3.75 M |                |              |         |          |          | AQUEOUS HNO3 FROM 3.75 TO 4.2 M |                |              |         |          |          |
|---------------------------------|----------------|--------------|---------|----------|----------|---------------------------------|----------------|--------------|---------|----------|----------|
| SOURCE                          | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) | SOURCE                          | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) |
| 17019                           |                | 3.390        |         | 3.548    |          | 82084                           |                | 4.000        |         | 4.700    |          |
| 17307                           |                | 3.440        |         | 5.350    |          | 38035                           |                | 4.000        |         | 5.200    |          |
| 17004                           |                | 3.470        |         |          | 18.200   | 17020                           |                | 4.000        |         | 4.200    |          |
| 38028                           |                | 3.500        |         | 4.829    |          | 82050                           |                | 4.000        |         | 5.100    |          |
| 39061                           |                | 3.500        |         |          | 19.500   | 17105                           |                | 4.000        |         | 3.400    |          |
| 38029                           | .94            | 3.500        |         | 3.928    |          | 39068                           |                | 4.000        |         |          | 20.000   |
| 39062                           | 1.04           | 3.500        |         |          | 12.100   | 17206                           |                | 4.000        |         |          | 16.400   |
| 82025                           | 2.08           | 3.520        | 19.519  | 2.010    | 9.470    | 82064                           |                | 4.000        |         |          | 14.800   |
| 39063                           | 2.14           | 3.500        |         |          | 9.080    | 82074                           |                | 4.000        |         |          | 13.200   |
| 38030                           | 2.21           | 3.500        |         | 3.410    |          | 82174                           |                | 4.000        |         |          | 16.600   |
| 82037                           | 4.50           | 3.730        | 12.667  | 1.330    | 6.630    | 17124                           |                | 4.000        |         |          | 19.000   |
| 39064                           | 7.21           | 3.500        |         |          | 5.240    | 82026                           | 8.50           | 3.880        | 8.635   | .840     | 4.240    |
| 38031                           | 7.92           | 3.500        |         | 1.200    |          | 82038                           | 16.00          | 3.900        | 5.563   | .510     | 2.420    |
| 39065                           | 13.82          | 3.500        |         |          | 2.900    | 82027                           | 26.50          | 3.950        | 3.623   | .320     | 1.480    |
| 38032                           | 14.48          | 3.500        |         | .568     |          | 82039                           | 53.00          | 3.990        | 1.962   | .230     | 1.010    |
| 38033                           | 35.90          | 3.500        |         | .220     |          |                                 |                |              |         |          |          |
| 39066                           | 50.34          | 3.500        |         |          | 1.050    |                                 |                |              |         |          |          |
| 38034                           | 70.20          | 3.500        |         | .083     |          |                                 |                |              |         |          |          |
| 39067                           | 139.00         | 3.500        |         |          | .193     |                                 |                |              |         |          |          |

DISTRIBUTION-COEFFICIENTS OF NP(IV) AND NP(VI)

| AQUEOUS HNO3 FROM 4.2 TO 5.2 M |                |              |         |          | AQUEOUS HNO3 FROM 5.2 TO 11.1 M |        |                |              |         |          |          |
|--------------------------------|----------------|--------------|---------|----------|---------------------------------|--------|----------------|--------------|---------|----------|----------|
| SOURCE                         | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI)                        | SOURCE | U-AQU<br>(G/L) | H-AQU<br>(M) | D-U(VI) | D-NP(IV) | D-NP(VI) |
| 17021                          |                | 4.320        |         | 5.248    |                                 | 82042  |                | 6.000        |         | 9.300    |          |
| 17005                          |                | 4.360        |         |          | 20.000                          | 38037  |                | 6.000        |         | 9.500    |          |
| 82065                          |                | 4.500        |         |          | 20.650                          | 82052  |                | 6.000        |         | 10.000   |          |
| 17207                          |                | 4.600        |         |          | 17.200                          | 17107  |                | 6.000        |         | 9.000    |          |
| 82041                          |                | 5.000        |         | 6.800    |                                 | 82067  |                | 6.000        |         |          | 14.600   |
| 38036                          |                | 5.000        |         | 7.100    |                                 | 82076  |                | 6.000        |         |          | 14.100   |
| 82051                          |                | 5.000        |         | 7.300    |                                 | 82176  |                | 6.000        |         |          | 15.400   |
| 17106                          |                | 5.000        |         | 5.500    |                                 | 17126  |                | 6.000        |         |          | 14.000   |
| 38069                          |                | 5.000        |         |          | 22.000                          | 17007  |                | 6.020        |         |          | 16.200   |
| 82066                          |                | 5.000        |         |          | 15.700                          | 17023  |                | 6.030        |         | 10.720   |          |
| 82075                          |                | 5.000        |         |          | 14.700                          | 82043  |                | 7.000        |         | 12.600   |          |
| 82175                          |                | 5.000        |         |          | 16.700                          | 17108  |                | 7.000        |         | 12.000   |          |
| 17125                          |                | 5.000        |         |          | 20.000                          | 17024  |                | 7.080        |         | 13.500   |          |
| 17022                          |                | 5.130        |         | 7.762    |                                 | 17025  |                | 7.940        |         | 13.330   |          |
| 17006                          |                | 5.130        |         |          | 19.500                          | 17008  |                | 7.940        |         |          | 10.000   |
|                                |                |              |         |          |                                 | 82044  |                | 8.000        |         | 14.500   |          |
|                                |                |              |         |          |                                 | 17109  |                | 8.000        |         | 15.000   |          |
|                                |                |              |         |          |                                 | 82045  |                | 9.000        |         | 14.000   |          |
|                                |                |              |         |          |                                 | 17110  |                | 9.000        |         | 14.000   |          |
|                                |                |              |         |          |                                 | 17026  |                | 9.020        |         | 11.220   |          |
|                                |                |              |         |          |                                 | 17009  |                | 9.120        |         |          | 8.130    |
|                                |                |              |         |          |                                 | 82046  |                | 10.000       |         | 11.000   |          |
|                                |                |              |         |          |                                 | 17111  |                | 10.000       |         | 13.000   |          |
|                                |                |              |         |          |                                 | 17027  |                | 10.000       |         | 9.772    |          |
|                                |                |              |         |          |                                 | 17010  |                | 10.000       |         |          | 5.620    |
|                                |                |              |         |          |                                 | 17011  |                | 10.960       |         |          | 5.130    |
|                                |                |              |         |          |                                 | 17028  |                | 11.000       |         | 7.762    |          |

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