AQUEOUS SOLUBILITY OF INORGANIC COMPOUNDS AT VARIOUS TEMPERATURES

The solubility of over 300 common inorganic compounds in water is tabulated here as a function of temperature. Solubility is defined as the concentration of the compound in a solution that is in equilibrium with a solid phase at the specified temperature. In this table the solid phase is generally the most stable crystalline phase at the temperature in question. An asterisk * on solubility values in adjacent columns indicates that the solid phase changes between those two temperatures (usually from one hydrated phase to another or from a hydrate to the anhydrous solid). In such cases the slope of the solubility vs. temperature curve may show a discontinuity.

All solubility values are expressed as mass percent of solute, $100 \cdot w_2$, where

$$w_2 = m_2/(m_1 + m_2)$$

and m_2 is the mass of solute and m_1 the mass of water. This quantity is related to other common measures of solubility as follows:

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Molality: m_2 = 1000w_2/M_2(1-w_2)
Mole fraction: x_2 = (w_2/M_2)/\{(w_2/M_2) + (1-w_2)/M_1\}
Mass of solute per 100 g of H<sub>2</sub>O: r_2 = 100w_2/(1-w_2)
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Here M_2 is the molar mass of the solute and $M_1 = 18.015$ g/mol is the molar mass of water.

The data in the table have been derived from the references indicated; in many cases the data have been refitted or interpolated in order to present solubility at rounded values of temperature. Where available, values were taken from the IUPAC *Solubility Data Series* (Reference 1) or the related papers in the *Journal of Physical and Chemical Reference Data* (References 2 to 5), which present carefully evaluated data.

The solubility of sparingly soluble compounds that do not appear in this table may be calculated from the data in the table "Solubility Product Constants". Solubility of inorganic gases may be found in the table "Solubility of Selected Gases in Water".

Compounds are listed alphabetically by chemical formula in the most commonly used form (e.g., NaCl, NH₄NO₃, etc.).

REFERENCES

- Solubility Data Series, International Union of Pure and Applied Chemistry. Volumes 1 to 53 were published by Pergamon Press, Oxford, from 1979 to 1994; subsequent volumes were published by Oxford University Press, Oxford. The number following the colon is the volume number in the series.
- 2. Clever, H.L., and Johnston, F.J., J. Phys. Chem. Ref. Data, 9, 751, 1980.
- 3. Marcus, Y., J. Phys. Chem. Ref. Data, 9, 1307, 1980.
- 4. Clever, H.L., Johnson, S.A., and Derrick, M.E., J. Phys. Chem. Ref. Data, 14, 631, 1985.
- 5. Clever, H.L., Johnson, S.A., and Derrick, M.E., J. Phys. Chem. Ref. Data, 21, 941, 1992.
- 6. Söhnel, O., and Novotny, P., Densities of Aqueous Solutions of Inorganic Substances, Elsevier, Amsterdam, 1985.
- 7. Krumgalz, B.S., Mineral Solubility in Water at Various Temperatures, Israel Oceanographic and Limnological Research Ltd., Haifa, 1994.
- 8. Potter, R.W., and Clynne, M.A., J. Research U.S. Geological Survey, 6, 701, 1978; Clynne, M.A., and Potter, R.W., J. Chem. Eng. Data, 24, 338, 1979.
- 9. Marshal, W.L., and Slusher, R., J. Phys. Chem., 70, 4015, 1966; Knacke, O., and Gans, W., Zeit. Phys. Chem., NF, 104, 41, 1977.
- 10. Stephen, H., and Stephen, T., Solubilities of Inorganic and Organic Compounds, Vol. 1, Macmillan, New York, 1963.

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| Compound | 0°C | 10°C | 20°C | 25°C | 30°C | 40°C | 50°C | 60°C | 70°C | 80°C | 90°C | 100°C | Ref. |
|--|---------------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| AgBrO ₂ | | | | 0.193 | | | | | | | 1.32 | | 7 |
| AgClO ₂ AgClO ₃ | 0.17 | 0.31 | 0.47 | 0.55 15 | 0.64 | 0.82 | 1.02 | 1.22 | 1.44 | 1.66 | 1.88 | 2.11 | 7 7 |
| AgClO ₄ | 81.6 | 83.0 | 84.2 | 84.8 0.413 | 85.3 | 86.3 | 86.9 | 87.5 | 87.9 | 88.3 | 88.6 | 88.8 | 6 |
| $AgNO_2$ $AgNO_3$ | 0.155 55.9 | 62.3 | 67.8 | 70.1 | 72.3 | 76.1 | 79.2 | 81.7 | 83.8 | 85.4 | 86.7 | 87.8 | 7 6 |
| Ag_2SO_4 | 0.56 | 0.67 | 0.78 | 0.83 | 0.88 | 0.97 | 1.05 | 1.13 | 1.20 | 1.26 | 1.32 | 1.39 | 7 |
| AlCl ₃ | 30.84 | 30.91 | 31.03 | 31.10 | 31.18 | 31.37 | 31.60 | 31.87 | 32.17 | 32.51 | 32.90 | 33.32 | 7 |
| $Al(ClO_4)_3$ | 54.9 | 50.71 | 31.03 | 31.10 | 31.10 | 31.37 | 31.00 | 31.07 | 32.17 | 32.31 | 64.4 | 33.32 | 7 |
| AlF ₃ | 0.25 | 0.34 | 0.44 | 0.50 | 0.56 | 0.68 | 0.81 | 0.96 | 1.11 | 1.28 | 1.45 | 1.64 | 7 |
| $Al(NO_3)_3$ | 37.0 | 38.2 | 39.9 | 40.8 | 42.0 | 44.5 | 47.3 | 50.4 | 53.8* | | | 61.5* | 6 |
| $Al_2(SO_4)_3$ | 27.5 | | | 27.8 | 28.2 | 29.2 | 30.7 | 32.6 | 34.9 | 37.6 | 40.7 | 44.2 | 7 |
| As_2O_3 | 1.19 | 1.48 | 1.80 | 2.01 | 2.27 | 2.86 | 3.43 | 4.11 | 4.89 | 5.77 | 6.72 | 7.71 | 10 |
| BaBr ₂ | 47.6 | 48.5 | 49.5 | 50.0 | 50.4 | 51.4 | 52.5 | 53.5 | 54.5 | 55.5 | 56.6 | 57.6 | 6 |
| $Ba(BrO_3)_2$ | 0.285 | 0.442 | 0.656 | 0.788 | 0.935 | 1.30 | 1.74 | 2.27 | 2.90 | 3.61 | 4.40 | 5.25 | 1:14 |
| $Ba(C_2H_3O_2)_2$ | 37.0 | | | 44.2 | | | | | | | | | 7 |
| $BaCl_2$ | 23.30 | 24.88 | 26.33 | 27.03 | 27.70 | 29.00 | 30.27 | 31.53 | 32.81 | 34.14 | 35.54 | 37.05 | 8 |
| $Ba(ClO_2)_2$ | 30.5 | | | 31.3 | | | | | | | | 44.7 | 7 |
| $Ba(ClO_3)_2$ | 16.90 | 21.23 | 23.66 | 27.50 | 29.43 | 33.16 | 36.69 | 40.05 | 43.04 | 45.90 | 48.70 | 51.17 | 1:14 |
| $Ba(ClO_4)_2$ | 67.30 | 70.96 | 74.30 | 75.75 | 77.05 | 79.23 | 80.92 | 82.21 | 83.16 | 83.88 | 84.43 | 84.90 | 7 |
| BaF_2 | | 0.158 | | 0.161 | | | | | | | | | 7 |
| BaI_2 | 62.5 | 64.7 | 67.3 | 68.8 | 69.1 | 69.5 | 70.1 | 70.7 | 71.3 | 72.0 | 72.7 | 73.4 | 6 |
| $Ba(IO_3)_2$ | 0.0182 | 0.0262 | 0.0342 | 0.0396 | 0.045* | 0.058* | 0.073 | 0.090 | 0.109 | 0.131 | 0.156 | 0.182 | 1:14 |
| $Ba(NO_2)_2$ | 31.1 | 36.6 | 41.8 | 44.3 | 46.8 | 51.6 | 56.2 | 60.5 | 64.6 | 68.5 | 72.1 | 75.6 | 10 |
| $Ba(NO_3)_2$ | 4.7 | 6.3 | 8.2 | 9.3 | 10.2 | 12.4 | 14.7 | 17.0 | 19.3 | 21.5 | 23.5 | 25.5 | 6 |
| Ba(OH) ₂ | 1.67 | 4.70 | 6.07 | 4.68 | 8.4 | 19 | 33 | 52 | 74 | 101 | 22.04 | 27.61 | 7 |
| BaS | 2.79 | 4.78 | 6.97 | 8.21 | 9.58 | 12.67 | 16.18 | 20.05 | 24.19 | 28.55 | 33.04 | 37.61 | 7 |
| Ba(SCN) ₂ | | | | 62.6 0.0011 | | | | | | | | | 7 1:26 |
| BaSO ₃ BeCl ₂ | 40.5 | | | 41.7 | | | | | | | | | 1:26 7 |
| $BeCl_2$ $Be(ClO_4)_2$ | 40.5 | | | 59.5 | | | | | | | | | 7 |
| $Be(ClO_4)_2$ $BeSO_4$ | 26.69 | 27.58 | 28.61 | 29.22 | 29.90 | 31.51 | 33.39 | 35.50 | 37.78 | 40.21 | 42.72 | 45.28 | 7 |
| CaBr ₂ | 55 | 56 | 59 | 61 | 63 | 68 | 71 | 73 | 37.76 | 40.21 | 42.72 | 43.20 | 10 |
| CaCl ₂ | 36.70 | 39.19 | 42.13 | 44.83* | 49.12* | 52.85* | 56.05* | 56.73 | 57.44 | 58.21 | 59.04 | 59.94 | 8 |
| Ca(ClO ₃) ₂ | 63.2 | 64.2 | 65.5 | 66.3 | 67.2 | 69.0 | 71.0 | 73.2 | 75.5* | 77.4* | 77.7 | 78.0 | 1:14 |
| $Ca(ClO_4)_2$ | 03.2 | 01.2 | 03.3 | 65.3 | 07.2 | 07.0 | 71.0 | 73.2 | 73.3 | ,, | ,,., | 70.0 | 7 |
| CaF ₂ | 0.0013 | | | 0.0016 | | | | | | | | | 10 |
| CaI ₂ | 64.6 | 66.0 | 67.6 | 68.3 | 69.0 | 70.8 | 72.4 | 74.0 | 76.0 | 78.0 | 79.6 | 81.0 | 7 |
| $Ca(IO_3)_2$ | 0.082 | 0.155 | 0.243 | 0.305 | 0.384* | 0.517* | 0.590 | 0.652 | 0.811* | 0.665* | 0.668 | | 1:14 |
| $Ca(NO_2)_2$ | 38.6 | 39.5 | 44.5 | 48.6 | | | | | | | | | 7 |
| $Ca(NO_3)_2$ | 50.1 | 53.1 | 56.7 | 59.0 | 60.9 | 65.4 | 77.8 | 78.1 | 78.2 | 78.3 | 78.4 | 78.5 | 6 |
| CaSO ₃ | | | 0.0059 | 0.0054 | 0.0049 | 0.0041 | 0.0035 | 0.0030 | 0.0026 | 0.0023 | 0.0020 | 0.0019 | 1:26 |
| CaSO ₄ | 0.174 | 0.191 | 0.202 | 0.205 | 0.208 | 0.210 | 0.207 | 0.201 | 0.193 | 0.184 | 0.173 | 0.163 | 9 |
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| Compound | 0°C | 10°C | 20°C | 25°C | 30°C | 40°C | 50°C | 60°C | 70°C | 80°C | 90°C | 100°C | Ref. |
|---|-------|-------|-------|----------------|--------|-------|-------|-------|-------|-------|-------|--------------|--------|
| $CdBr_2$ CdC_2O_4 | 36.0 | 43.0 | 49.9 | 53.4 0.0060 | 56.4 | 60.3* | 60.3* | 60.5 | 60.7 | 60.9 | 61.3 | 61.6 | 6 5 |
| CdCl ₂ Cd(ClO ₄) ₂ | 47.2 | 50.1 | 53.2 | 54.6 58.7 | 56.3* | 57.3* | 57.5 | 57.8 | 58.1 | 58.51 | 58.98 | 59.5 66.9 | 6 7 |
| CdF_2 | | 5.82 | 4.65 | 4.18 | 3.76 | | | | | | | | 5 |
| CdI ₂ | 44.1 | 44.9 | 45.8 | 46.3 | 46.8 | 47.9 | 49.0 | 50.2 | 51.5 | 52.7 | 54.1 | 55.4 | 6 |
| $Cd(IO_3)_2$ | | | | 0.091 | | | | | | | | | 5 |
| $Cd(NO_3)_2$ | 55.4 | 57.1 | 59.6 | 61.0 | 62.8 | 66.5 | 70.6 | 86.1 | 86.5 | 86.8 | 87.1 | 87.4 | 6 |
| $CdSO_4$ | 43.1 | 43.1 | 43.2 | 43.4 | 43.6 | 44.1 | 43.5 | 42.5 | 41.4 | 40.2 | 38.5 | 36.7 | 6 |
| $CdSeO_4$ | 42.04 | 40.59 | 39.02 | 38.18 | 37.29 | 35.35 | 33.15 | 30.65 | 27.84 | 24.69 | 21.24 | 17.49 | 5 |
| $Ce(NO_3)_3$ | 57.99 | 59.80 | 61.89 | 63.05 | 64.31* | 67.0* | 68.6 | 71.1* | 74.9* | 79.2 | 80.9 | 83.1 | 1:13 |
| CoCl ₂ | 30.30 | 32.60 | 34.87 | 35.99 | 37.10 | 39.27 | 41.38 | 43.46 | 45.50 | 47.51 | 49.51 | 51.50 | 7 |
| $Co(ClO_4)_2$ | 50.0 | | | 53.0 | | | | | | | | | 7 |
| CoF_2 | | | | 1.4 | | | | | | | | | 7 |
| CoI_2 | 58.00 | 61.78 | 65.35 | 66.99 | 68.51 | 71.17 | 73.41 | 75.29 | 76.89 | 78.28 | 79.52 | 80.70 | 7 |
| $Co(NO_2)_2$ | 0.076 | | | 0.49 | | | | | | | | | 7 |
| $Co(NO_3)_2$ | 45.5 | 47.0 | 49.4 | 50.8 | 52.4 | 56.0 | 60.1 | 62.6 | 64.9 | 67.7 | | | 6 |
| $CoSO_4$ | 19.9 | 23.0 | 26.1 | 27.7 | 29.2 | 32.3 | 34.4 | 35.9 | 35.5 | 33.2 | 30.6 | 27.8 | 6 |
| $Co(SCN)_2$ | | | | 50.7 | | | | | | | | | 7 |
| CrO ₃ | 62.2 | 62.3 | 62.6 | 62.8 | 63.0 | 63.5 | 64.1 | 64.7 | 65.5 | 66.2 | 67.1 | 67.9 | 6 |
| CsBr | | | | 55.2 | | | | | | | | | 7 |
| CsBrO ₃ | 1.16 | 1.93 | 3.01 | 3.69 | 4.46 | 6.32 | 8.60 | 11.32 | 14.45 | 17.96 | 21.83 | 25.98 | 1:30 |
| CsCl | 61.83 | 63.48 | 64.96 | 65.64 | 66.29 | 67.50 | 68.60 | 69.61 | 70.54 | 71.40 | 72.21 | 72.96 | 1:47 |
| CsClO ₃ | 2.40 | 3.87 | 5.94 | 7.22 | 8.69 | 12.15 | 16.33 | 21.14 | 26.45 | 32.10 | 37.89 | 43.42 | 1:30 |
| CsClO ₄ | 0.79 | 1.01 | 1.51 | 1.96 | 2.57 | 4.28 | 6.55 | 9.29 | 12.41 | 15.80 | 19.39 | 23.07 | 7 |
| CsI | 30.9 | 37.2 | 43.2 | 45.9 | 48.6 | 53.3 | 57.3 | 60.7 | 63.6 | 65.9 | 67.7 | 69.2 | 6 |
| CsIO ₃ | 1.08 | 1.58 | 2.21 | 2.59 | 3.02 | 3.96 | 5.06 | 6.29 | 7.70 | 9.20 | 10.79 | 12.45 | 1:30 |
| $CsNO_3$ | 8.46 | 13.0 | 18.6 | 21.8 | 25.1 | 32.0 | 39.0 | 45.7 | 51.9 | 57.3 | 62.1 | 66.2 | 6 |
| CsOH | | | | | 75 | | | | | | | | 7 |
| Cs_2SO_4 | 62.6 | 63.4 | 64.1 | 64.5 | 64.8 | 65.5 | 66.1 | 66.7 | 67.3 | 67.8 | 68.3 | 68.8 | 6 |
| CuBr ₂ | | | | 55.8 | | | | | | | | | 7 |
| CuCl ₂ | 40.8 | 41.7 | 42.6 | 43.1 | 43.7 | 44.8 | 46.0 | 47.2 | 48.5 | 49.9 | 51.3 | 52.7 | 6 |
| $Cu(ClO_4)_2$ | 54.3 | | | | 59.3 | | | | | | | | 7 |
| CuF ₂ | | | | 0.075 | | | | | | | | | 7 |
| $Cu(NO_3)_2$ | 45.2 | 49.8 | 56.3 | 59.2 | 61.1 | 62.0 | 63.1 | 64.5 | 65.9 | 67.5 | 69.2 | 71.0 | 6 |
| CuSO ₄ | 12.4 | 14.4 | 16.7 | 18.0 | 19.3 | 22.2 | 25.4 | 28.8 | 32.4 | 36.3 | 40.3 | 43.5 | 6 |
| $CuSeO_4$ | 10.6 | | | 16.0 | | | | | | | | | 7 |
| $Dy(NO_3)_3$ | 58.79 | 59.99 | 61.49 | 62.35 | 63.29 | 65.43 | 68.04 | 71.58 | | | | | 1:13 |
| $Er(NO_3)_3$ | 61.58 | 63.15 | 64.84 | 65.75 | 66.69 | 68.70 | 70.96 | 73.64 | 77.75 | | | | 1:13 |
| $Eu(NO_3)_3$ | 55.2 | 56.7 | 58.5 | 59.4 | 60.4 | 62.5 | 64.6 | | | | | | 1:13 |
| $FeBr_2$ | | | | 54.6 | | | | | | | | 64.8* | 7 |
| FeCl ₂ | 33.2* | | | 39.4* | | | | | | | | 48.7* | 7 |
| FeCl ₃ | 42.7 | 44.9 | 47.9 | 47.7 | 51.6 | 74.8 | 76.7 | 84.6 | 84.3 | 84.3 | 84.4 | 84.7 | 6 |

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| Compound | 0°C | 10°C | 20°C | 25°C | 30°C | 40°C | 50°C | 60°C | 70°C | 80°C | 90°C | 100°C | Ref. |
|------------------------------------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|
| Fe(ClO ₄) ₂ | 63.39 | | | 67.76 | | | | | | | | | 7 |
| FeF ₃ | | | | 5.59 | | | | | | | | | 7 |
| $Fe(NO_3)_3$ | 40.15 | | | 46.57 | | | | | | | | | 7 |
| $Fe(NO_3)_2$ | 41.44 | | | 46.67 | | | | | | | | | 7 |
| $FeSO_4$ | 13.5 | 17.0 | 20.8 | 22.8 | 24.8 | 28.8 | 32.8 | 35.5 | 33.6 | 30.4 | 27.1 | 24.0 | 6 |
| $Gd(NO_3)_3$ | 56.3 | 57.7 | 59.2 | 60.1 | 61.0 | 62.9 | 65.2 | 67.9 | 71.5 | | | | 1:13 |
| HIO_3 | 73.45 | 74.10 | 74.98 | 75.48 | 76.03 | 77.20 | 78.46 | 79.78 | 81.13 | 82.48 | 83.82 | 85.14 | 1:30 |
| H_3BO_3 | 2.61 | 3.57 | 4.77 | 5.48 | 6.27 | 8.10 | 10.3 | 12.9 | 15.9 | 19.3 | 23.1 | 27.3 | 6 |
| $HgBr_2$ | 0.26 | 0.37 | 0.52 | 0.61 | 0.72 | 0.96 | 1.26 | 1.63 | 2.08 | 2.61 | 3.23 | 3.95 | 4 |
| $Hg(CN)_2$ | 6.57 | 7.83 | 9.33 | 10.2 | 11.1 | 13.1 | 15.5 | 18.2 | 21.2 | 24.6 | 28.3 | 32.3 | 6 |
| $HgCl_2$ | 4.24 | 5.05 | 6.17 | 6.81 | 7.62 | 9.53 | 12.02 | 15.18 | 19.16 | 24.06 | 29.90 | 36.62 | 4 |
| HgI_2 | | | 0.0041 | 0.0055 | 0.0072 | 0.0122 | 0.0199 | | | | | | 4 |
| $Hg(SCN)_2$ | | | | 0.070 | | | | | | | | | 4 |
| Hg_2Cl_2 | | | | 0.0004 | | | | | | | | | 3 |
| $Hg_2(ClO_4)_2$ | 73.8 | | | 79.8* | | | | | | | | 85.3* | 7 |
| Hg_2SO_4 | 0.038 | 0.043 | 0.048 | 0.051 | 0.054 | 0.059 | 0.065 | 0.070 | 0.076 | 0.082 | 0.088 | 0.093 | 4 |
| $Ho(NO_3)_3$ | | | | 63.8 | | | | | | | | | 1:13 |
| KBF_4 | 0.28 | 0.34 | 0.45 | 0.55 | 0.75 | 1.38 | 2.09 | 2.82 | 3.58 | 4.34 | 5.12 | 5.90 | 10 |
| KBr | 35.0 | 37.3 | 39.4 | 40.4 | 41.4 | 43.2 | 44.8 | 46.2 | 47.6 | 48.8 | 49.8 | 50.8 | 6 |
| $KBrO_3$ | 2.97 | 4.48 | 6.42 | 7.55 | 8.79 | 11.57 | 14.71 | 18.14 | 21.79 | 25.57 | 29.42 | 33.28 | 1:30 |
| $KC_2H_3O_2$ | 68.40 | 70.29 | 72.09 | 72.92 | 73.70 | 75.08 | 76.27 | 77.31 | 78.22 | 79.04 | 79.80 | 80.55 | 7 |
| KCl | 21.74 | 23.61 | 25.39 | 26.22 | 27.04 | 28.59 | 30.04 | 31.40 | 32.66 | 33.86 | 34.99 | 36.05 | 1:47 |
| KClO ₃ | 3.03 | 4.67 | 6.74 | 7.93 | 9.21 | 12.06 | 15.26 | 18.78 | 22.65 | 26.88 | 31.53 | 36.65 | 1:30 |
| KClO ₄ | 0.70 | 1.10 | 1.67 | 2.04 | 2.47 | 3.54 | 4.94 | 6.74 | 8.99 | 11.71 | 14.94 | 18.67 | 6 |
| KF | 30.90 | 39.8 | 47.3 | 50.41 | 53.2 | | | | | 60.0 | | | 7 |
| $KHCO_3$ | 18.62 | 21.73 | 24.92 | 26.6 | 28.13 | 31.32 | 34.46 | 37.51 | 40.45 | | | | 6 |
| $KHSO_4$ | 27.1 | 29.7 | 32.3 | 33.6 | 35.0 | 37.8 | 40.5 | 43.4 | 46.2 | 49.02 | 51.82 | 54.6 | 6 |
| KH_2PO_4 | 11.74 | 14.91 | 18.25 | 19.97 | 21.77 | 25.28 | 28.95 | 32.76 | 36.75 | 40.96 | 45.41 | 50.12 | 1:31 |
| KI | 56.0 | 57.6 | 59.0 | 59.7 | 60.4 | 61.6 | 62.8 | 63.8 | 64.8 | 65.7 | 66.6 | 67.4 | 6 |
| KIO_3 | 4.53 | 5.96 | 7.57 | 8.44 | 9.34 | 11.09 | 13.22 | 15.29 | 17.41 | 19.58 | 21.78 | 24.03 | 1:30 |
| KIO_4 | 0.16 | 0.22 | 0.37 | 0.51 | 0.70 | 1.24 | 1.96 | 2.83 | 3.82 | 4.89 | 6.02 | 7.17 | 7 |
| $KMnO_4$ | 2.74 | 4.12 | 5.96 | 7.06 | 8.28 | 11.11 | 14.42 | 18.16 | | | | | 6 |
| KNO_2 | 73.7 | 74.6 | 75.3 | 75.7 | 76.0 | 76.7 | 77.4 | 78.0 | 78.5 | 79.1 | 79.6 | 80.1 | 6 |
| KNO_3 | 12.0 | 17.6 | 24.2 | 27.7 | 31.3 | 38.6 | 45.7 | 52.2 | 58.0 | 63.0 | 67.3 | 70.8 | 6 |
| KOH | 48.7 | 50.8 | 53.2 | 54.7 | 56.1 | 57.9 | 58.6 | 59.5 | 60.6 | 61.8 | 63.1 | 64.6 | 6 |
| KSCN | 63.8 | 66.4 | 69.1 | 70.4 | 71.6 | 74.1 | 76.5 | 78.9 | 81.1 | 83.3 | 85.3 | 87.3 | 6 |
| K_2CO_3 | 51.3 | 51.7 | 52.3 | 52.7 | 53.1 | 54.0 | 54.9 | 56.0 | 57.2 | 58.4 | 59.6 | 61.0 | 6 |
| K_2CrO_4 | 37.1 | 38.1 | 38.9 | 39.4 | 39.8 | 40.5 | 41.3 | 41.9 | 42.6 | 43.2 | 43.8 | 44.3 | 6 |
| $K_2Cr_2O_7$ | 4.30 | 7.12 | 10.9 | 13.1 | 15.5 | 20.8 | 26.3 | 31.7 | 36.9 | 41.5 | 45.5 | 48.9 | 6 |
| K_2HAsO_4 | 48.5* | | | 63.6* | | | | | | | | 79.8* | 7 |
| K_2HPO_4 | 57.0 | 59.1 | 61.5 | 62.7 | 64.1 | 67.7* | | 72.7* | | | | | 1:31 |
| K_2MoO_4 | | | | 64.7 | | | | | | | 66.5 | | 7 |
| K_2SO_3 | 51.30 | 51.39 | 51.49 | 51.55 | 51.62 | 51.76 | 51.93 | 52.11 | 52.32 | 52.54 | 52.79 | 53.06 | 1:26 |

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| Compound | 0°C | 10°C | 20°C | 25°C | 30°C | 40°C | 50°C | 60°C | 70° C | 80°C | 90°C | 100°C | Ref. |
|--|---------------|------------|--------|--------------|------------|--------|--------|--------------|--------------|-------|--------|----------------|--------|
| K_2SO_4 | 7.11 | 8.46 | 9.95 | 10.7 | 11.4 | 12.9 | 14.2 | 15.5 | 16.7 | 17.7 | 18.6 | 19.3 | 6 |
| $K_2S_2O_3$ | 49.0* | | | 62.3* | | | | | | | 75.7* | | 7 |
| $K_2S_2O_5$ | 22.1 | 26.7 | 31.1 | 33.1 | 35.2 | 39.0 | 42.6 | 46.0 | 49.1 | 52.0 | 54.6 | 50 Ft | 1:26 |
| K_2SeO_3 | 68.4* | 52.02 | 52.15 | 68.5* | 50.40 | 50.50 | 52.00 | 54.20 | 54.61 | 54.04 | 55.06 | 68.5* | 7 |
| K ₂ SeO ₄ | 52.70 | 52.93 | 53.17 | 53.30 | 53.43 | 53.70 | 53.99 | 54.30 | 54.61 | 54.94 | 55.26 | 55.60 | 7 |
| K ₃ AsO ₄ | 51.5* | 25.6 | 24.4 | 55.6* | 24.2 | 25.2 | 20.5 | | 40.5 | 45.0 | 4-4 | 73* | 7 |
| $K_3Fe(CN)_6$ | 23.9 | 27.6 | 31.1 | 32.8 | 34.3 | 37.2 | 39.6 | 41.7 | 43.5 | 45.0 | 46.1 | 47.0 | 6 |
| K ₃ PO ₄ | 44.3 | 17.0 | 22.0 | 51.4 | 25.6 | 20.2 | 22.5 | 25.5 | 20.2 | 10.6 | 41.4 | 42.1 | 7 |
| $K_4Fe(CN)_6$ | 12.5 | 17.3 | 22.0 | 23.9 | 25.6 | 29.2 | 32.5 | 35.5 | 38.2 | 40.6 | 41.4 | 43.1 | 6 |
| LaCl ₃ | 49.0 | 48.5 | 48.6 | 48.9 | 49.3 | 50.5 | 52.1 | 54.0 | 56.3 | 58.9 | 61.7 | | 6 |
| $La(NO_3)_3$ | 55.0 | 56.9 | 58.9 | 60.0 | 61.1 | 63.6 | 66.3 | 69.9* | 74.1* | 70.7 | 71.7 | 72.0 | 1:13 |
| LiBr | 58.4 | 60.1 | 62.7 | 64.4 | 65.9 | 67.8 | 68.3 | 69.0 | 69.8 | 70.7 | 71.7 | 72.8 | 6 |
| LiBrO ₃ | 61.03 | 62.62 | 64.44 | 65.44 | 66.51 | 68.90 | 71.68* | 73.24* | 74.43 | 75.66 | 76.93 | 78.32 | 1:30 |
| LiC ₂ H ₃ O ₂ | 23.76 | 26.49 | 29.42 | 31.02 | 32.72 | 36.48 | 40.65 | 45.15 | 49.93 | 54.91 | 60.04 | 65.26 | 7 |
| LiCl | 40.45 | 42.46* | 45.29* | 45.81 | 46.25 | 47.30 | 48.47 | 49.78 | 51.27 | 52.98 | 54.98* | 56.34* | 1:47 |
| LiClO ₃ | 73.2 | 75.6* | 80.8* | 82.1 37.0 | 83.4 | 85.9* | 87.1* | 88.2 49.2 | 89.6 | 91.3 | 93.4 | 95.7 | 1:30 |
| LiClO ₄ | 30.1 | 32.6 | 35.5 | | 38.6 | 41.9 | 45.5 | 49.2 | 53.2 | 57.2 | 61.3 | 71.4 | 6 |
| LiF | 0.120 55.8 | 0.126 | 0.131 | 0.134 | | | | | | | | | 7 |
| LiH ₂ PO ₄ LiI | 55.8 59.4 | 60.5 | 61.7 | 62.3 | 63.0 | 64.3 | 65.8 | 67.3 | 68.8 | 81.3 | 81.7 | 82.6 | 7 6 |
| LiIO ₃ | 39.4 | 00.3 | 01.7 | 43.8 | 03.0 | 04.3 | 03.8 | 07.3 | 00.0 | 81.3 | 81.7 | 82.0 | 1:30 |
| LiNO ₂ | 41 | 45 | 49 | 43.8 51 | 53 | 56 | 60 | 63 | 66 | 68 | | | 10 |
| LiNO ₂ LiNO ₃ | 34.8 | 43 37.6 | 49 | 50.5 | 55 57.9 | 60.1 | 62.2 | 64.0 | 65.7 | 67.2 | 68.5 | 69.7 | 6 |
| LiOH | 10.8 | 10.8 | 11.0 | 11.1 | 11.3 | 11.7 | 12.2 | 12.7 | 13.4 | 14.2 | 15.1 | 16.1 | 6 |
| LiSCN | 10.6 | 10.6 | 11.0 | 54.5 | 11.3 | 11./ | 12.2 | 12.7 | 13.4 | 14.2 | 13.1 | 10.1 | 7 |
| Li ₂ CO ₃ | 1.54 | 1.43 | 1.33 | 1.28 | 1.24 | 1.15 | 1.07 | 0.99 | 0.92 | 0.85 | 0.78 | 0.72 | 7 |
| Li_2CO_3 $\text{Li}_2\text{C}_2\text{O}_4$ | 1.54 | 1.43 | 1.55 | 5.87 | 1.24 | 1.13 | 1.07 | 0.99 | 0.92 | 0.85 | 0.78 | 0.72 | 7 |
| Li ₂ HPO ₃ | 9.07 | 8.40 | 7.77 | 7.47 | 7.18 | 6.64 | 6.16 | 5.71 | 5.30 | 4.91 | 4.53 | 4.16 | 7 |
| Li ₂ SO ₄ | 26.3 | 25.9 | 25.6 | 25.5 | 25.3 | 25.0 | 24.8 | 24.5 | 24.3 | 24.0 | 23.8 | 23.6 | 6 |
| Li ₂ SO ₄ Li ₃ PO ₄ | 20.3 | 23.7 | 23.0 | 0.027 | 23.3 | 23.0 | 24.0 | 24.3 | 24.3 | 24.0 | 23.0 | 23.0 | 1:31 |
| $Lu(NO_3)_3$ | | | | 71.1 | | | | | | | | | 1:13 |
| MgBr ₂ | 49.3 | 49.8 | 50.3 | 50.6 | 50.9 | 51.5 | 52.1 | 52.8 | 53.5 | 54.2 | 55.0 | 55.7 | 6 |
| $Mg(BrO_3)_2$ | 43.0 | 45.2 | 48.0 | 49.4 | 51.0 | 54.3 | 57.9 | 61.6 | 65.3 | 69.0* | 70.9* | 71.7 | 1:14 |
| $Mg(C_2H_3O_2)_2$ | 36.18 | 37.55 | 38.92 | 39.61 | 31.0 | 54.5 | 31.7 | 01.0 | 05.5 | 07.0 | 70.5 | /1./ | 7 |
| MgC_2O_4 | 30.10 | 31.33 | 30.72 | 0.038 | | | | | | | | | 7 |
| MgCl ₂ | 33.96 | 34.85 | 35.58 | 35.90 | 36.20 | 36.77 | 37.34 | 37.97 | 38.71 | 39.62 | 40.75 | 42.15 | 8 |
| $Mg(ClO_3)_2$ | 53.35 | 54.40 | 56.81 | 58.66 | 60.91* | 65.46* | 67.33 | 69.27 | 71.01 | 72.44 | 73.48 | 12.13 | 1:14 |
| $Mg(ClO_4)_2$ | 47.8 | 48.7 | 49.6 | 50.1 | 50.5 | 51.3 | 52.1 | 07.27 | 71.01 | 72.11 | 75.10 | | 6 |
| MgCrO ₄ | 32.06* | | .,.0 | 35.39* | 00.0 | 01.0 | 02.1 | | | | | | 7 |
| MgCr ₂ O ₇ | 22.00 | | | 58.9 | | | | | | 67.0 | | | 7 |
| MgF_2 | | | | 0.013 | | | | | | 00 | | | 7 |
| MgI ₂ | 54.7 | 56.1 | 58.2 | 59.4 | 60.8 | 63.9 | 65.0 | 65.0 | 65.0 | 65.0 | 65.1 | 65.2 | 6 |
| $Mg(IO_3)_2$ | 3.19* | 6.70* | 7.92 | 8.52 | 9.11 | 10.45 | 11.99 | 13.7 | 15.6 | 17.6 | 19.6 | · - | 1:14 |
| O\ - 3/2 | | | | | | | | | | | | | |

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| Compound | 0°C | 10°C | 20°C | 25°C | 30°C | 40°C | 50°C | 60°C | 70°C | 80°C | 90°C | 100°C | Ref. |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| $Mg(NO_2)_2$ | | | | 47 | | | | | | | | | 7 |
| $Mg(NO_3)_2$ | 38.4 | 39.5 | 40.8 | 41.6 | 42.4 | 44.1 | 45.9 | 47.9 | 50.0 | 52.2 | 70.6 | 72.0 | 6 |
| $MgSO_3$ | 0.32 | 0.37 | 0.46 | 0.52 | 0.61 | 0.87* | 0.85* | 0.76 | 0.69 | 0.64 | 0.62 | 0.60 | 1:26 |
| $MgSO_4$ | 18.2 | 21.7 | 25.1 | 26.3 | 28.2 | 30.9 | 33.4 | 35.6 | 36.9 | 35.9 | 34.7 | 33.3 | 6 |
| MgS_2O_3 | 30.7 | | | 34.1 | | | | | | | | | 7 |
| $MgSeO_4$ | 31.4* | | | 35.7* | | | | | | | | 47* | 7 |
| $MnBr_2$ | 56.00 | 57.72 | 59.39 | 60.19 | 60.96 | 62.41 | 63.75 | 65.01 | 66.19 | 67.32 | 68.42 | 69.50 | 7 |
| $MnCl_2$ | 38.7 | 40.6 | 42.5 | 43.6 | 44.7 | 47.0 | 49.4 | 54.1 | 54.7 | 55.2 | 55.7 | 56.1 | 6 |
| MnF_2 | 0.80* | | | 1.01* | | | | | | | | 0.48 | 7 |
| $Mn(IO_3)_2$ | | | | 0.27 | | | | | | | 0.34 | | 7 |
| $Mn(NO_3)_2$ | 50.5 | | | 61.7 | | | | | | | | | 7 |
| $MnSO_4$ | 34.6 | 37.3 | 38.6 | 38.9 | 38.9 | 37.7 | 36.3 | 34.6 | 32.8 | 30.8 | 28.8 | 26.7 | 6 |
| NH_4Br | 37.5 | 40.2 | 42.7 | 43.9 | 45.1 | 47.3 | 49.4 | 51.3 | 53.0 | 54.6 | 56.1 | 57.4 | 7 |
| NH ₄ Cl | 22.92 | 25.12 | 27.27 | 28.34 | 29.39 | 31.46 | 33.50 | 35.49 | 37.46 | 39.40 | 41.33 | 43.24 | 1:47 |
| NH_4ClO_4 | 10.8 | 14.1 | 17.8 | 19.7 | 21.7 | 25.8 | 29.8 | 33.6 | 37.3 | 40.7 | 43.8 | 46.6 | 6 |
| NH_4F | 41.7 | 43.2 | 44.7 | 45.5 | 46.3 | 47.8 | 49.3 | 50.9 | 52.5 | 54.1 | | | 7 |
| NH_4HCO_3 | 10.6 | 13.7 | 17.6 | 19.9 | 22.4 | 27.9 | 34.2 | 41.4 | 49.3 | 58.1 | 67.6 | 78.0 | 7 |
| $NH_4H_2AsO_4$ | 25.2 | 29.0 | 32.7 | 34.5 | 36.3 | 39.7 | 43.1 | 46.2 | 49.3 | 52.2 | 55.0 | | 7 |
| $NH_4H_2PO_4$ | 17.8 | 22.0 | 26.4 | 28.8 | 31.2 | 36.2 | 41.6 | 47.2 | 53.0 | 59.2 | 65.7 | 72.4 | 7 |
| NH_4I | 60.7 | 62.1 | 63.4 | 64.0 | 64.6 | 65.8 | 66.8 | 67.8 | 68.7 | 69.6 | 70.4 | 71.1 | 6 |
| NH_4IO_3 | | | | 3.70 | 4.20 | 5.64 | 7.63 | | | | | | 1:30 |
| NH_4NO_2 | 55.7 | 59.0 | 64.9 | 68.8 | | | | | | | | | 7 |
| NH_4NO_3 | 54.0 | 60.1 | 65.5 | 68.0 | 70.3 | 74.3 | 77.7 | 80.8 | 83.4 | 85.8 | 88.2 | 90.3 | 6 |
| NH ₄ SCN | | | | 64.4 | | | | | 81.1 | | | | 7 |
| $(NH_4)_2C_2O_4$ | 2.31 | 3.11 | 4.25 | 4.94 | 5.73 | 7.56 | 9.73 | 12.2 | 15.1 | 18.3 | 21.8 | 25.7 | 7 |
| $(NH_4)_2HPO_4$ | 36.4 | 38.2 | 40.0 | 41.0 | 42.0 | 44.1 | 46.2 | 48.5 | 50.9 | 53.3 | 55.9 | 58.6 | 7 |
| $(NH_4)_2S_2O_5$ | 65.5 | 67.9 | 69.8 | 70.5 | 71.3 | 72.3 | 72.9 | 73.1 | | | | | 1:26 |
| $(NH_4)_2S_2O_8$ | 37.00 | 40.45 | 43.84 | 45.49 | 47.11 | 50.25 | 53.28 | 56.23 | 59.13 | 62.00 | | | 7 |
| $(NH_4)_2SO_3$ | 32.2 | 34.9 | 37.7 | 39.1 | 40.6 | 43.7 | 47.0 | 50.6 | 54.5 | 58.9 | | | 1:26 |
| $(NH_4)_2SO_4$ | 41.3 | 42.1 | 42.9 | 43.3 | 43.8 | 44.7 | 45.6 | 46.6 | 47.5 | 48.5 | 49.5 | 50.5 | 6 |
| $(NH_4)_2SeO_3$ | 49.0 | 51.1 | 53.4 | 54.7 | 56.0 | 58.9 | 62.0 | 65.4 | 69.1 | | | | 7 |
| $(NH_4)_2SeO_4$ | | | | 54.02 | | | | | | | | | 7 |
| $(NH_4)_3PO_4$ | | | | 15.5 | | | | | | | | | 7 |
| NaBr | 44.4 | 45.9 | 47.7 | 48.6 | 49.6 | 51.6 | 53.7 | 54.1 | 54.3 | 54.5 | 54.7 | 54.9 | 6 |
| $NaBrO_3$ | 20.0 | 23.22 | 26.65 | 28.28 | 29.86 | 32.83 | 35.55 | 38.05 | 40.37 | 42.52 | | | 1:30 |
| $NaCHO_2$ | 30.8 | 37.9 | 45.7 | 48.7 | 50.6 | 52.0 | 53.5 | 55.0 | | | | | 6 |
| $NaC_2H_3O_2$ | 26.5 | 28.8 | 31.8 | 33.5 | 35.5 | 39.9 | 45.1 | 58.3 | 59.3 | 60.5 | 61.7 | 62.9 | 6 |
| NaCl | 26.28 | 26.32 | 26.41 | 26.45 | 26.52 | 26.67 | 26.84 | 27.03 | 27.25 | 27.50 | 27.78 | 28.05 | 1:47 |
| NaClO | 22.7 | | | 44.4 | | | | | | | | | 7 |
| NaClO ₂ | | | | 97.0* | | | | 95.3* | | | | | 7 |
| NaClO ₃ | 44.27 | 46.67 | 49.3 | 50.1 | 51.2 | 53.6 | 55.5 | 57.0 | 58.5 | 60.5 | 63.3 | 67.1 | 1:30 |
| NaClO ₄ | 61.9 | 64.1 | 66.2 | 67.2 | 68.3 | 70.4 | 72.5 | 74.1 | 74.7 | 75.4 | 76.1 | 76.7 | 6 |
| NaF | 3.52 | 3.72 | 3.89 | 3.97 | 4.05 | 4.20 | 4.34 | 4.46 | 4.57 | 4.66 | 4.75 | 4.82 | 6 |

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| Compound | 0°C | 10°C | 20°C | 25°C | 30°C | 40°C | 50°C | 60°C | 70°C | 80°C | 90°C | 100°C | Ref. |
|--|-------|--------|--------|--------|--------|--------|--------|-------|--------|-------|-------|-------|------|
| NaHCO ₃ | 6.48 | 7.59 | 8.73 | 9.32 | 9.91 | 11.13 | 12.40 | 13.70 | 15.02 | 16.37 | 17.73 | 19.10 | 7 |
| NaHSO ₄ | | | | 22.2 | | | | | | | | 33.3 | 10 |
| NaH ₂ PO ₄ | 36.54 | 41.07 | 46.00 | 48.68 | 51.54 | 57.89* | 61.7* | 62.3* | 65.9 | 68.7 | | | 1:31 |
| NaI | 61.2 | 62.4 | 63.9 | 64.8 | 65.7 | 67.7 | 69.8 | 72.0 | 74.7 | 74.8 | 74.9 | 75.1 | 6 |
| NaIO ₃ | 2.43 | 4.40 | 7.78* | 8.65* | 9.60 | 11.67 | 13.99 | 16.52 | 19.25* | 21.1* | 22.9 | 24.7 | 1:30 |
| NaIO ₄ | | | | 12.62 | | | | | | | | | 7 |
| NaNO ₂ | 41.9 | 43.4 | 45.1 | 45.9 | 46.8 | 48.7 | 50.7 | 52.8 | 55.0 | 57.2 | 59.5 | 61.8 | 6 |
| NaNO ₃ | 42.2 | 44.4 | 46.6 | 47.7 | 48.8 | 51.0 | 53.2 | 55.3 | 57.5 | 59.6 | 61.7 | 63.8 | 6 |
| NaOH | 30 | 39 | 46 | 50 | 53 | 58 | 63 | 67 | 71 | 74 | 76 | 79 | 10 |
| NaSCN | | 52.9 | 57.1 | 60.2 | 62.7 | 63.5 | 64.2 | 65.0 | 65.9 | 66.9 | 67.9 | 69.0 | 6 |
| $Na_2B_4O_7$ | 1.23 | 1.71 | 2.50 | 3.07 | 3.82 | 6.02 | 9.7 | 14.9 | 17.1 | 19.9 | 23.5 | 28.0 | 6 |
| Na ₂ CO ₃ | 6.44 | 10.8 | 17.9 | 23.5 | 28.7 | 32.8 | 32.2 | 31.7 | 31.3 | 31.1 | 30.9 | 30.9 | 6 |
| $Na_2C_2O_4$ | 2.62 | 2.95 | 3.30 | 3.48 | 3.65 | 4.00 | 4.36 | 4.71 | 5.06 | 5.41 | 5.75 | 6.08 | 6 |
| Na ₂ CrO ₄ | 22.6 | 32.3 | 44.6 | 46.7 | 46.9 | 48.9 | 51.0 | 53.4 | 55.3 | 55.5 | 55.8 | 56.1 | 6 |
| Na ₂ Cr ₂ O ₇ | 62.1 | 63.1 | 64.4 | 65.2 | 66.1 | 68.0 | 70.1 | 72.3 | 74.6 | 77.0 | 79.6 | 80.7 | 6 |
| Na ₂ HAsO ₄ | 5.6* | | | 29.3* | | | | | | | | 67* | 7 |
| Na ₂ HPO ₄ | 1.66 | 4.19 | 7.51 | 10.55 | 16.34* | 35.17* | 44.64* | 45.20 | 46.81 | 48.78 | 50.52 | 51.53 | 1:31 |
| Na_2MoO_4 | 30.6 | 38.8 | 39.4 | 39.4 | 39.8 | 40.3 | 41.0 | 41.7 | 42.6 | 43.5 | 44.5 | 45.5 | 6 |
| Na ₂ S | 11.1 | 13.2 | 15.7 | 17.1 | 18.6 | 22.1 | 26.7 | 28.1 | 30.2 | 33.0 | 36.4 | 41.0 | 6 |
| Na ₂ SO ₃ | 12.0 | 16.1 | 20.9 | 23.5 | 26.3* | 27.3* | 25.9 | 24.8 | 23.7 | 22.8 | 22.1 | 21.5 | 1:26 |
| Na_2SO_4 | | | 16.13 | 21.94 | 29.22* | 32.35* | 31.55 | 30.90 | 30.39 | 30.02 | 29.79 | 29.67 | 8 |
| $Na_2S_2O_3$ | 33.1 | 36.3 | 40.6 | 43.3 | 45.9 | 52.0 | 62.3 | 65.7 | 68.8 | 69.4 | 70.1 | 71.0 | 6 |
| $Na_2S_2O_5$ | | 38.4 | 39.5 | 40.0 | 40.6 | 41.8 | 43.0 | 44.2 | 45.5 | 46.8 | 48.1 | 49.5 | 1:26 |
| Na ₂ SeO ₃ | | | | 47.3* | | | | | | | | 45* | 7 |
| Na ₂ SeO ₄ | 11.7 | | | 36.9* | | | | | | | | 42.1* | 7 |
| Na_2WO_4 | 41.6 | 41.9 | 42.3 | 42.6 | 42.9 | 43.6 | 44.4 | 45.3 | 46.2 | 47.3 | 48.4 | 49.5 | 6 |
| Na ₃ PO ₄ | 4.28 | 7.30 | 10.8 | 12.6 | 14.1 | 16.6 | 22.9 | 28.4 | 32.4 | 37.6 | 40.4 | 43.5 | 6 |
| $Na_4P_2O_7$ | 2.23 | 3.28 | 4.81 | 6.62 | 7.00 | 10.10 | 14.38 | 20.07 | 27.31 | 36.03 | 32.37 | 30.67 | 6 |
| NdCl ₃ | 49.0 | 49.3 | 49.7 | 50.0 | 50.4 | 51.2 | 52.2 | 53.3 | 54.5 | 55.8 | 57.1 | 58.5 | 6 |
| $Nd(NO_3)_3$ | 55.76 | 57.49 | 59.37 | 60.38 | 61.43 | 63.69 | 66.27 | 69.47 | | | | | 1:13 |
| NiCl ₂ | 34.7 | 36.1 | 38.5 | 40.3 | 41.7 | 42.1 | 43.2 | 45.0 | 46.1 | 46.2 | 46.4 | 46.6 | 6 |
| $Ni(ClO_4)_2$ | 51.1 | | | 52.8 | | | | | | | | | 7 |
| NiF ₂ | | | | 2.50 | | | | | | | 2.52 | | 7 |
| NiI ₂ | 55.40 | 57.68 | 59.78 | 60.69 | 61.50 | 62.80 | 63.73 | 64.38 | 64.80 | 65.09 | 65.30 | | 7 |
| $Ni(NO_3)_2$ | 44.1 | 46.0 | 48.4 | 49.8 | 51.3 | 54.6 | 58.3 | 61.0 | 63.1 | 65.6 | 67.9 | 69.0 | 6 |
| NiSO ₄ | 21.4 | 24.4 | 27.4 | 28.8 | 30.3* | 32.0* | 34.1 | 35.8 | 37.7 | 39.9 | 42.3 | 44.8 | 6 |
| Ni(SCN) ₂ | | | | 35.48 | | | | | | | | | 7 |
| NiSeO ₄ | 21.6 | | 26.2* | | | | | | | | | 45.6* | 7 |
| PbBr ₂ | 0.449 | 0.620 | 0.841 | 0.966 | 1.118 | 1.46 | 1.89 | | | | | | 2 |
| PbCl ₂ | 0.66 | 0.81 | 0.98 | 1.07 | 1.17 | 1.39 | 1.64 | 1.93 | 2.24 | 2.60 | 2.99 | 3.42 | 2 |
| $Pb(ClO_4)_2$ | | | | 81.5 | | | | | | | | | 7 |
| PbF_2 | | 0.0603 | 0.0649 | 0.0670 | 0.0693 | | | | | | | | 2 |
| PbI_2 | 0.041 | 0.052 | 0.067 | 0.076 | 0.086 | 0.112 | 0.144 | 0.187 | 0.243 | 0.315 | | | 2 |

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| Compound | 0°C | 10°C | 20°C | 25°C | 30°C | 40°C | 50°C | 60°C | 70°C | 80°C | 90°C | 100°C | Ref. |
|-----------------------------------|--------|-------------|----------------------|---------------|--------|--------|--------|--------|--------|-------|-------|-------|-----------|
| $Pb(IO_3)_2$ | | | | 0.0025 | | | | | | | | | 7 |
| $Pb(NO_3)_2$ | 28.46 | 32.13 | 35.67 | 37.38 | 39.05 | 42.22 | 45.17 | 47.90 | 50.42 | 52.72 | 54.82 | 56.75 | 2 |
| $PbSO_4$ | 0.0033 | 0.0038 | 0.0042 | 0.0044 | 0.0047 | 0.0052 | 0.0058 | | | | | | 2 |
| PrCl ₃ | 48.0 | 48.1 | 48.6 | 49.0 | 49.5 | 50.8 | 52.3 | 54.1 | 56.1 | 58.3 | | | 6 |
| $Pr(NO_3)_3$ | 57.50 | 59.20 | 61.16 | 62.24 | 63.40* | 65.7* | 67.8 | 70.2 | 73.4 | | | | 1:13 |
| RbBr | 47.4 | 50.1 | 52.6 | 53.8 | 54.9 | 57.0 | 58.8 | 60.6 | 62.1 | 63.5 | 64.8 | 65.9 | 6 |
| $RbBrO_3$ | 0.97 | 1.55 | 2.36 | 2.87 | 3.45 | 4.87 | 6.64 | 8.78 | 11.29 | 14.15 | 17.32 | 20.76 | 1:30 |
| RbCl | 43.58 | 45.65 | 47.53 | 48.42 | 49.27 | 50.86 | 52.34 | 53.67 | 54.92 | 56.08 | 57.16 | 58.15 | 1:47 |
| RbClO ₃ | 2.10 | 3.38 | 5.14 | 6.22 | 7.45 | 10.35 | 13.85 | 17.93 | 22.53 | 27.57 | 32.96 | 38.60 | 1:30 |
| $RbClO_4$ | 1 | | | 1.5 | | | | | | | | 17 | 7 |
| RbF | | | 75 | | | | | | | | | | 7 |
| $RbHCO_3$ | | | 53.7 | | | | | | | | | | 7 |
| RbI | 55.8 | 58.6 | 61.1 | 62.3 | 63.4 | 65.4 | 67.2 | 68.8 | 70.3 | 71.6 | 72.7 | 73.8 | 6 |
| RbIO ₃ | 1.09 | 1.53 | 2.07 | 2.38 | 2.74 | 3.52 | 4.41 | 5.42 | 6.52 | 7.74 | 9.00 | 10.36 | 1:30 |
| $RbNO_3$ | 16.4 | 25.0 | 34.6 | 39.4 | 44.2 | 53.1 | 60.8 | 67.2 | 72.2 | 76.1 | 79.0 | 81.2 | 6 |
| RbOH | | | | | 63.4 | | | | | | | | 7 |
| Rb_2CrO_4 | 38.27 | | | 43.26 | | | | | | | | | 7 |
| Rb_2SO_4 | 27.3 | 30.0 | 32.5 | 33.7 | 34.8 | 36.9 | 38.7 | 40.3 | 41.8 | 43.0 | 44.1 | 44.9 | 6 |
| SbCl ₃ | 85.7 | | | 90.8 | | | | | | | | | 7 |
| SbF_3 | 79.4 | | | 83.1 | | | | | | | | | 7 |
| $Sc(NO_3)_3$ | 57.0 | 59.3 | 61.6 | 62.8 | 63.9 | 66.2 | 68.5 | | | | | | 1:13 |
| $Sm(NO_3)_3$ | 54.83 | 56.33 | 58.08 | 59.05 | 60.08 | 62.38 | 65.05* | 68.1* | 70.8 | 74.2 | | | 1:13 |
| SmCl ₃ | | 48.0 | 48.2 | 48.4 | 48.6 | 49.2 | 50.0 | | | | | | 6 |
| SnCl ₂ | 46 | 64 | | | | | | | | | | | 7 |
| SnI_2 | | | 0.97 | | | | | | | | | 3.87 | 7 |
| SrBr ₂ | 46.0 | 48.3 | 50.6 | 51.7 | 52.9 | 55.2 | 57.6 | 59.9 | 62.3 | 64.6 | 66.8 | 69.0 | 6 |
| $Sr(BrO_3)_2$ | 18.53 | 22.00 | 25.39 | 27.02 | 28.59 | 31.55 | 34.21 | 36.57 | 38.64* | 40.2* | 40.8 | 41.0 | 1:14 |
| SrCl ₂ | 31.94 | 32.93 | 34.43 | 35.37 | 36.43 | 38.93 | 41.94 | 45.44* | 46.81* | 47.69 | 48.70 | 49.87 | 8 |
| $Sr(ClO_2)_2$ | 13.0 | 13.6 | 14.1 | 14.3 | 14.5 | 14.9 | 15.3 | 15.6 | 15.9 | | | | 7 |
| $Sr(ClO_3)_2$ | 63.29 | 63.42 | 63.64 | 63.77 | 63.93 | 64.29 | 64.70 | 65.16 | 65.65 | 66.18 | 66.74 | 67.31 | 1:14 |
| $Sr(ClO_4)_2$ | 70.04* | | | 75.35* | | 78.44* | | | | | | | 7 |
| SrF ₂ | 0.011 | 62 0 | <i>c</i> 2. z | 0.021 | c 4 5 | 65 O | 67.0 | 60.0 | 70.0 | 72.7 | 7.4.7 | 70.2 | 7 |
| SrI ₂ | 62.5 | 62.8 | 63.5 | 63.9 | 64.5 | 65.8 | 67.3 | 69.0 | 70.8 | 72.7 | 74.7 | 79.2 | 6 |
| $Sr(IO_3)_2$ | 0.102 | 0.126 | 0.152 | 0.165 | 0.179 | 0.206 | 0.233 | 0.259 | 0.284 | 0.307 | 0.328 | 0.346 | 1:14 |
| $Sr(MnO_4)_2$ | 2.5 | | | | 41.0 | 44.2 | | | | | | 50.6 | 7 |
| $Sr(NO_2)_2$ | 20.2 | 24.6 | 41.0 | 44.5 | 41.9 | 44.3 | 47.0 | 40.4 | 40.0 | 40.5 | 50.1 | 58.6 | 7 |
| Sr(NO ₃) ₂ | 28.2 | 34.6 | 41.0 | 44.5 | 47.0 | 47.4 | 47.9 | 48.4 | 48.9 | 49.5 | 50.1 | 50.7 | 6 7 |
| Sr(OH) ₂ | 0.9 | | | 2.2 0.0015 | | | | | | | | | 1:26 |
| SrSO ₃ | | | | | | | | | | | | | 1:26 7 |
| SrSO ₄ | 00 | 13.2 | 17.7 | 0.0135 | 22.2 | 26.9 | | | | | | | 7 |
| SrS ₂ O ₃ | 8.8 | 13.2 | 17.7 | 20.0 | 22.2 | 26.8 | | | | | | | |
| $Tb(NO_3)_3$ | 2.65 | 250 | 60.6 | 61.02 | 5 00 | 7.00 | 0.10 | 0.80 | 11 22 | 10.77 | 14.10 | 15.52 | 1:13 |
| Tl_2SO_4 | 2.65 | 3.56 | 4.61 | 5.19 | 5.80 | 7.09 | 8.46 | 9.89 | 11.33 | 12.77 | 14.18 | 15.53 | 6 |

| Compound | 0°C | 10°C | 20°C | 25°C | 30°C | 40°C | 50°C | 60°C | 70°C | 80°C | 90°C | 100°C | Ref. |
|----------------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|-------|------|
| $Tm(NO_3)_3$ | | | | 67.9 | | | | | | | | | 1:13 |
| $UO_2(NO_3)_2$ | 49.52 | 51.82 | 54.42 | 55.85 | 57.55 | 61.59 | 67.07 | | | | | | 1:55 |
| $Y(NO_3)_3$ | 55.57 | 56.93 | 58.75 | 59.86 | 61.11* | 63.3* | 64.9 | 67.9 | 72.5 | | | | 1:13 |
| $Yb(NO_3)_3$ | | | | 70.5 | | | | | | | | | 1:13 |
| $ZnBr_2$ | 79.3 | 80.1 | 81.8 | 83.0 | 84.1 | 85.6 | 85.8 | 86.1 | 86.3 | 86.6 | 86.8 | 87.1 | 6 |
| ZnC_2O_4 | | 0.0010 | 0.0019 | 0.0026 | | | | | | | | | 5 |
| $ZnCl_2$ | | 76.6 | 79.0 | 80.3 | 81.4 | 81.8 | 82.4 | 83.0 | 83.7 | 84.4 | 85.2 | 86.0 | 6 |
| $Zn(ClO_4)_2$ | 44.29* | | | 46.27* | | | 48.70 | | | | | | 7 |
| ZnF_2 | | | | 1.53 | | | | | | | | | 5 |
| ZnI_2 | 81.1 | 81.2 | 81.3 | 81.4 | 81.5 | 81.7 | 82.0 | 82.3 | 82.6 | 83.0 | 83.3 | 83.7 | 6 |
| $Zn(IO_3)_2$ | | | 0.58 | 0.64 | 0.69 | 0.77 | 0.82 | | | | | | 5 |
| $Zn(NO_3)_2$ | 47.8 | 50.8 | 54.4 | 54.6 | 58.5 | 79.1 | 80.1 | 87.5 | 89.9 | | | | 6 |
| $ZnSO_3$ | | | 0.1786 | 0.1790 | 0.1794 | 0.1803 | 0.1812 | | | | | | 5 |
| $ZnSO_4$ | 29.1 | 32.0 | 35.0 | 36.6 | 38.2 | 41.3 | 43.0 | 42.1 | 41.0 | 39.9 | 38.8 | 37.6 | 6 |
| $ZnSeO_4$ | 33.06 | 34.98 | 37.38 | 38.79 | 40.34 | | | | | | | | 5 |

