

# Solubility table

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*See also: Solubility chart*

The table below provides information on the variation of solubility of different substances (mostly inorganic compounds) in water with temperature, under 1 atm pressure, units of solubility in g/100g H<sub>2</sub>O. The substances are listed in alphabetical order.

## Contents

Contents																									
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z

### A

Substance	Formula	0°C	10°C	15°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Actinium(III) hydroxide	Ac(OH) <sub>3</sub>				0.0022								
Aluminium chloride	AlCl <sub>3</sub>	43.9	44.9		45.8	46.6	47.3		48.1		48.6		49.0
Aluminium fluoride	AlF <sub>3</sub>	0.56	0.56		0.67	0.78	0.91		1.1		1.32		1.72
Aluminium hydroxide	Al(OH) <sub>3</sub>				0.0001								
Aluminium nitrate	Al(NO <sub>3</sub> ) <sub>3</sub>	60	66.7		73.9	81.8	88.7	96.0	106	120	132	153	160
Aluminium perchlorate	Al(ClO <sub>4</sub> ) <sub>3</sub>	122	128		133								
Aluminium sulfate	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	31.2	33.5		36.4	40.4	45.8	52.2	59.2	66.2	73	80.8	89.0
Ammonia (Unit:mL/mL)	NH <sub>3</sub>	1176	900		702	565	428	333	252	188	138	100	88
Ammonium azide	NH <sub>4</sub> N <sub>3</sub>	16			25.3		37.1						
Ammonium benzoate	NH <sub>4</sub> C <sub>7</sub> H <sub>5</sub> O <sub>2</sub>		19.6		21.3								83
Ammonium bicarbonate	NH <sub>4</sub> HCO <sub>3</sub>	11.9	16.1		21.7	28.4	36.6		59.2		109	dec	
Ammonium bromide	NH <sub>4</sub> Br	60.6	68.1		76.4	83.2	91.2	99.2	108	117	125	135	145
Ammonium carbonate	(NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub> ·H <sub>2</sub> O	55.8			100				dec				
Ammonium chlorate	NH <sub>4</sub> ClO <sub>3</sub>				28.7								
Ammonium chloride	NH <sub>4</sub> Cl	29.4	33.2		37.2	41.4	45.8	50.4	55.3	60.2	65.6	71.2	77.3
Ammonium hexachloroplatinate	(NH <sub>4</sub> ) <sub>2</sub> PtCl <sub>6</sub>	0.289	0.374		0.499	0.637	0.815		1.44		2.16	2.61	3.36
Ammonium chromate	(NH <sub>4</sub> ) <sub>2</sub> CrO <sub>4</sub>	25	29.2		34	39.3	45.3	51.9	59.0	71.2	76.1		
Ammonium dichromate	(NH <sub>4</sub> ) <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	18.2	25.5		35.6	46.5	58.5	71.4	86.0		115		156
Ammonium dihydrogen arsenate	NH <sub>4</sub> H <sub>2</sub> AsO <sub>4</sub>	33.7			48.7		63.8		83		107	122	
Ammonium dihydrogen phosphate	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>	22.7	39.5		37.4	46.4	56.7	69.0	82.5	98.6	118.3	142.8	173.2
Ammonium fluoride	NH <sub>4</sub> F	100											
Ammonium fluorosilicate	(NH <sub>4</sub> ) <sub>2</sub> SiF <sub>6</sub>	12.28	16.41		18.6	25.0	31.6	35.4	40.4	44.9	75°C:48.1		61.0
Ammonium formate	NH <sub>4</sub> HCO <sub>2</sub>	102			143		204		311		533		

Ammonium hydrogen phosphate	$(\text{NH}_4)_2\text{HPO}_4$	42.9	62.9		68.9	75.1	81.8	89.2	97.2	106	110	112	121
Ammonium hydrogen sulfate	$\text{NH}_4\text{HSO}_4$				100								
Ammonium hydrogen tartrate	$\text{NH}_4\text{HC}_4\text{H}_4\text{O}_6$		1.88		2.7								
Ammonium iodate	$\text{NH}_4\text{IO}_3$			2.6									14.5
Ammonium iodide	$\text{NH}_4\text{I}$	155	163		172	182	191	200	209	219	229		250
Ammonium nitrate	$\text{NH}_4\text{NO}_3$	118	150		192	242	297	344	421	499	580	740	871
Ammonium orthoperiodate	$(\text{NH}_4)_5\text{IO}_6$				2.7								
Ammonium oxalate	$(\text{NH}_4)_2\text{C}_2\text{O}_4$	2.2	3.21		4.45	6.09	8.18	10.3	14.0		22.4	27.9	34.7
Ammonium perchlorate	$\text{NH}_4\text{ClO}_4$	11.56	16.4		20.85		30.58		39.05		48.19		57.01
Ammonium permanganate	$\text{NH}_4\text{MnO}_4$			8.0					dec				
Ammonium phosphate	$(\text{NH}_4)_3\text{PO}_4$	9.40			20.3			37.7					
Ammonium selenate	$(\text{NH}_4)_2\text{SeO}_4$	96	105		115	126	143		192				
Ammonium sulfate	$(\text{NH}_4)_2\text{SO}_4$	70.6	73		75.4	78.1	81.2	84.3	87.4		94.1		103
Ammonium aluminium sulfate	$\text{NH}_4\text{AlSO}_4 \cdot 12\text{H}_2\text{O}$	2.4	5.0		7.4	10.5	14.6	19.6	26.7	37.7	53.9	98.2	121
Ammonium sulfite	$(\text{NH}_4)_2\text{SO}_3$	47.9	54		60.8	68.8	78.4		104		144	150	153
Ammonium tartrate	$(\text{NH}_4)_2\text{C}_4\text{H}_4\text{O}_6$	45	55		63	70.5	76.5		86.9				
Ammonium thiocyanate	$\text{NH}_4\text{SCN}$	120	144		170	208	234	235	346				
Ammonium thiosulfate	$(\text{NH}_4)_2\text{S}_2\text{O}_3$				173		205				269		
Ammonium vanadate	$\text{NH}_4\text{VO}_3$				0.48	0.84	1.32	1.78	2.42	3.05			7.0
Aniline	$\text{C}_6\text{H}_7\text{N}$				3.6								
Antimony trifluoride	$\text{SbF}_3$	385			444	562	dec						
Antimony sulfide	$\text{Sb}_2\text{S}_3$				0.00018								
Antimony trichloride	$\text{SbCl}_3$	602			910	1090	1370	1917	4531	dec			
Argon (Unit:mL/mL)	Ar	0.056	0.0405		0.0336	0.0288	0.0252	0.0223					
Arsenic pentasulfide	$\text{As}_2\text{S}_5$	0.0014											
Arsenic pentoxide	$\text{As}_2\text{O}_5$	59.5	62.1		65.8	70.6	71.2		73.0		75.1		76.7
Arsenious sulfide	$\text{As}_2\text{S}_3$				0.0004								
Arsenic trioxide	$\text{As}_2\text{O}_3$	1.21	1.58		1.80		2.93	3.43	4.44	5.37	5.89	6.55	8.20
Arsine (Unit:mL/mL)	$\text{AsH}_3$				0.2								

**B**

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Barium acetate	$\text{Ba}(\text{C}_2\text{H}_3\text{O}_2)_2$	58.8	62	72	75	78.5	77	75	74	74		74.8
Barium arsenate	$\text{Ba}_3(\text{AsO}_4)_2$			2.586E-09								
Barium azide	$\text{Ba}(\text{N}_3)_2$	12.5	16.1	17.4								

Barium bromate monohydrate	Ba(BrO <sub>3</sub> ) <sub>2</sub> ·H <sub>2</sub> O	0.29	0.44	0.65	0.95	1.31	1.75	2.27	3.01	3.65	4.45	5.71
Barium bromide	BaBr <sub>2</sub>	98	101	104	109	114		123		135		149
Barium carbonate	BaCO <sub>3</sub>			0.001409								
Barium chlorate	Ba(ClO <sub>3</sub> ) <sub>2</sub>	20.3	26.9	33.9	41.6	49.7		66.7		84.8		105
Barium chloride	BaCl <sub>2</sub>	31.2	33.5	35.8	38.1	40.8		46.2		52.5	55.8	59.4
Barium chlorite	Ba(ClO <sub>2</sub> ) <sub>2</sub>	43.9	44.6	45.4		47.9		53.8		66.6		80.8
Barium chromate	BaCrO <sub>4</sub>			0.0002775								
Barium cyanide	Ba(CN) <sub>2</sub>			80								
Barium ferrocyanide	Ba <sub>2</sub> Fe(CN) <sub>6</sub>			0.009732								
Barium fluoride	BaF <sub>2</sub>		0.159	0.16	0.162							
Barium fluorosilicate	BaSiF <sub>6</sub>			0.028								
Barium formate	Ba(HCO <sub>2</sub> ) <sub>2</sub>	26.2	28	31.9	34		38.6		44.2	47.6	51.3	
Barium hydrogen phosphate	BaHPO <sub>4</sub>			0.013								
Barium hydrogen phosphite	BaHPO <sub>3</sub>			0.687								
Barium hydroxide	Ba(OH) <sub>2</sub> ·8H <sub>2</sub> O	1.67	2.48	3.89	5.59	8.22	11.7	20.9		101		
Barium iodate	Ba(IO <sub>3</sub> ) <sub>2</sub>			0.035	0.046	0.057						0.2
Barium iodide	BaI <sub>2</sub>	182	201	223	250			264			291	301
Barium molybdate	BaMoO <sub>4</sub>			0.006								
Barium nitrate	Ba(NO <sub>3</sub> ) <sub>2</sub>	4.95	6.67	9.02	11.5	14.1		20.4		27.2		34.4
Barium nitrite	Ba(NO <sub>2</sub> ) <sub>2</sub>	50.3	60	72.8		102		151		222	261	325
Barium oxalate	BaC <sub>2</sub> O <sub>4</sub> ·2H <sub>2</sub> O			0.003								
Barium oxide	BaO			3.48							90.8	
Barium perchlorate	Ba(ClO <sub>4</sub> ) <sub>2</sub>	239		336		416		495		575		653
Barium permanganate	Ba(MnO <sub>4</sub> ) <sub>2</sub>			0.015								
Barium pyrophosphate	Ba <sub>2</sub> P <sub>2</sub> O <sub>7</sub>			0.009								
Barium selenate	BaSeO <sub>4</sub>			0.005								
Barium sulfate	BaSO <sub>4</sub>			0.0002448	0.000285							
Barium sulfide	BaS	2.88	4.89	7.86	10.4	14.9		27.7		49.9	67.3	60.3
Beryllium carbonate	BeCO <sub>3</sub>			0.218								
Beryllium chloride	BeCl <sub>2</sub>		42	42								
Beryllium molybdate	BeMoO <sub>4</sub>			3.02								
Beryllium nitrate	Be(NO <sub>3</sub> ) <sub>2</sub>	97	102	108	113	125		178				
Beryllium oxalate	BeC <sub>2</sub> O <sub>4</sub> ·3H <sub>2</sub> O			63.5								
Beryllium perchlorate	Be(ClO <sub>4</sub> ) <sub>2</sub>			147								
Beryllium selenate	BeSeO <sub>4</sub> ·4H <sub>2</sub> O			49								
Beryllium sulfate	BeSO <sub>4</sub>	37	37.6	39.1	41.4	45.8		53.1		67.2		82.8
Bismuth arsenate	BiAsO <sub>4</sub>			0.0007298								
Bismuth hydroxide	Bi(OH) <sub>3</sub>			2.868E-07								
Bismuth iodide	BiI <sub>3</sub>			0.0007761								
Bismuth phosphate	BiPO <sub>4</sub>			1.096E-10								
Bismuth sulfide	Bi <sub>2</sub> S <sub>3</sub>			1.561E-20								
Boric acid	H <sub>3</sub> BO <sub>3</sub>	2.52		4.72		8.08	10.27	12.97		19.10		27.53

Boron trioxide	B <sub>2</sub> O <sub>3</sub>			2.2								
Bromine monochloride	BrCl			1.5								

## C

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°
							C		C			C
Cadmium arsenate	Cd <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub>			0.000007091								
Cadmium benzoate	Cd(C <sub>7</sub> H <sub>5</sub> O <sub>2</sub> ) <sub>2</sub>			2.81								
Cadmium bromate	Cd(BrO <sub>3</sub> ) <sub>2</sub>			125								
Cadmium bromide	CdBr <sub>2</sub>	56.3	75.4	98.8	129	152		153		156		160
Cadmium carbonate	CdCO <sub>3</sub>			0.00003932								
Cadmium chlorate	Cd(ClO <sub>3</sub> ) <sub>2</sub>	299	308	322	348	376		455				
Cadmium chloride	CdCl <sub>2</sub>	100	135	135	135	135		136		140		147
Cadmium cyanide	Cd(CN) <sub>2</sub>			0.022								
Cadmium ferrocyanide	Cd <sub>2</sub> Fe(CN) <sub>6</sub>			0.00008736								
Cadmium fluoride	CdF <sub>2</sub>			4								
Cadmium formate	Cd(HCO <sub>2</sub> ) <sub>2</sub>	8.3	11.1	14.4	18.6	25.3		59.5		80.5	85.2	94.6
Cadmium hydroxide	Cd(OH) <sub>2</sub>			0.0002697								
Cadmium iodate	Cd(IO <sub>3</sub> ) <sub>2</sub>			0.097								
Cadmium iodide	CdI <sub>2</sub>	78.7		84.7	87.9	92.1		100		111		125
Cadmium nitrate	Cd(NO <sub>3</sub> ) <sub>2</sub>	122		136	150	194		310		713		
Cadmium oxalate	CdC <sub>2</sub> O <sub>4</sub> ·3H <sub>2</sub> O			0.006046								
Cadmium perchlorate	Cd(ClO <sub>4</sub> ) <sub>2</sub>		180	188	195	203		221		243		272
Cadmium phosphate	Cd <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>			6.235E-06								
Cadmium selenate	CdSeO <sub>4</sub>	72.5	68.4	64	58.9	55		44.2		32.5	27.2	22
Cadmium sulfate	CdSO <sub>4</sub>	75.4	76	76.6		78.5		81.8		66.7	63.1	60.8
Cadmium sulfide	CdS			1.292E-12								
Cadmium tungstate	CdWO <sub>4</sub>			0.04642								
Caesium acetate	CsC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>			1010								
Caesium azide	CsN <sub>3</sub>			307								
Caesium bromate	CsBrO <sub>3</sub>	0.21		3.66	4.53	5.3						
Caesium bromide	CsBr			108								
Caesium chlorate	CsClO <sub>3</sub>		3.8	6.2	9.5	13.8		26.2		45	58	79
Caesium chloride	CsCl	146	175	187	197	208		230		250	260	271
Caesium chromate	Cs <sub>2</sub> CrO <sub>4</sub>		71.4									
Caesium fluoride	CsF			322								
Caesium fluoroborate	CsBF <sub>4</sub>			0.818								
Caesium formate	CsHCO <sub>2</sub>	335	381	450	694							
Caesium iodate	CsIO <sub>3</sub>			2.6								
Caesium iodide	CsI	44.1	58.5	76.5	96	124		150		190	205	
Caesium nitrate	CsNO <sub>3</sub>	9.33	14.9	23	33.9	47.2		83.8		134	163	197
Caesium oxalate	Cs <sub>2</sub> C <sub>2</sub> O <sub>4</sub>			313								
Caesium perchlorate	CsClO <sub>4</sub>	0.8	1	1.6	2.6	4		7.3		14.4	20.5	30
Caesium permanganate	CsMnO <sub>4</sub>			0.228								

Caesium selenate	$\text{Cs}_2\text{SeO}_4$		244							
Caesium sulfate	$\text{Cs}_2\text{SO}_4$	167	173	179	184	190	200	210	215	200
Calcium chloride	$\text{CaCl}_2$	59.5	64.7	74.5	100	128	137	147	154	159
Calcium acetate	$\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2 \cdot 2\text{H}_2\text{O}$	37.4	36	34.7	33.8	33.2	32.7	33.5	31.1	29.7
Calcium arsenate	$\text{Ca}_3(\text{AsO}_4)_2$			0.003629						
Calcium azide	$\text{Ca}(\text{N}_3)_2$			45						
Calcium benzoate	$\text{Ca}(\text{C}_7\text{H}_5\text{O}_2)_2 \cdot 3\text{H}_2\text{O}$	2.32	2.45	2.72	3.02	3.42	4.71	6.87	8.55	8.7
Calcium bicarbonate	$\text{Ca}(\text{HCO}_3)_2$	16.1		16.6		17.1	17.5	17.9		18.4
Calcium bromate	$\text{Ca}(\text{BrO}_3)_2$			230						
Calcium bromide	$\text{CaBr}_2$	125	132	143		213	278	295		312
Aragonite	$\text{CaCO}_3$ -Aragonite			0.0007753						
Calcite	$\text{CaCO}_3$ -Calcite			0.0006170						
Calcium chlorate	$\text{Ca}(\text{ClO}_3)_2$			209						
Calcium chromate	$\text{CaCrO}_4$	4.5		2.25	1.83	1.49	0.83			
Monocalcium phosphate	$\text{Ca}(\text{H}_2\text{PO}_4)_2$			1.8						
Calcium fluoride	$\text{CaF}_2$	0.008575								
Calcium fluorosilicate	$\text{CaSiF}_6$			0.518						
Calcium formate	$\text{Ca}(\text{HCO}_2)_2$	16.1		16.6		17.1	17.5	17.9		18.4
Dicalcium phosphate	$\text{CaHPO}_4$			0.004303						
Calcium hydroxide	$\text{Ca}(\text{OH})_2$	0.189	0.182	0.173	0.16	0.141	0.121	0.086	0.076	
Calcium iodate	$\text{Ca}(\text{IO}_3)_2$	0.09		0.24	0.38	0.52	0.65	0.66	0.67	0.67
Calcium iodide	$\text{CaI}_2$	64.6		66	67.6	70.8	74	78		81
Calcium molybdate	$\text{CaMoO}_4$			0.004099						
Calcium nitrate	$\text{Ca}(\text{NO}_3)_2$			121.2						
Calcium nitrate tetrahydrate	$\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$	102	115	129	152	191		358		363
Calcium nitrite	$\text{Ca}(\text{NO}_2)_2 \cdot 4\text{H}_2\text{O}$	63.9		84.5	104		134	151	166	178
Calcium oxalate	$\text{CaC}_2\text{O}_4$			0.00067						0.0014
Calcium perchlorate	$\text{Ca}(\text{ClO}_4)_2$			188						
Calcium permanganate	$\text{Ca}(\text{MnO}_4)_2$			338						
Calcium phosphate	$\text{Ca}_3(\text{PO}_4)_2$			0.002						
Calcium selenate	$\text{CaSeO}_4 \cdot 2\text{H}_2\text{O}$	9.73	9.77	9.22	8.79	7.14				
Calcium sulfate	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$	0.223	0.244	0.255	0.264	0.265	0.244	0.234		0.205
Calcium tungstate	$\text{CaWO}_4$			0.002387						
Carbon dioxide	$\text{CO}_2$			0.1782						
Carbon monoxide	$\text{CO}$			0.0026						
Cerium(III) acetate	$\text{Ce}(\text{C}_2\text{H}_3\text{O}_2)_3$			0.35						
Cerium(III) chloride	$\text{CeCl}_3$			100						
Cerium(III) hydroxide	$\text{Ce}(\text{OH})_3$			0.0000943						
Cerium(III) iodate	$\text{Ce}(\text{IO}_3)_3$			0.123						
Cerium(III) nitrate	$\text{Ce}(\text{NO}_3)_3$			234						

Cerium(III) phosphate	CePO <sub>4</sub>			7.434E-11							
Cerium(III) selenate	Ce <sub>2</sub> (SeO <sub>4</sub> ) <sub>3</sub>	39.5	37.2	35.2	33.2	32.6	13.7	4.6			
Cerium(III) sulfate	Ce <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·2H <sub>2</sub> O	21.4		9.84	7.24	5.63	3.87				
Cerium(IV) hydroxide	Ce(OH) <sub>4</sub>			1.981E-09							
Chromium(III) nitrate	Cr(NO <sub>3</sub> ) <sub>3</sub>	108	124	130	152						
Chromium(III) perchlorate	Cr(ClO <sub>4</sub> ) <sub>3</sub>	104	123	130							
Chromium(III) sulfate	Cr <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·18H <sub>2</sub> O			220							
Chromium(VI) oxide	CrO <sub>3</sub>	61.7		63					67		
Cobalt(II) bromate	Co(BrO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O			45.5							
Cobalt(II) bromide	CoBr <sub>2</sub>	91.9		112	128	163	227	241		257	
Cobalt(II) chlorate	Co(ClO <sub>3</sub> ) <sub>2</sub>	135	162	180	195	214	316				
Cobalt(II) chloride	CoCl <sub>2</sub>	43.5	47.7	52.9	59.7	69.5	93.8	97.6	101	106	
Cobalt(II) fluoride	CoF <sub>2</sub>			1.36							
Cobalt(II) fluorosilicate	CoSiF <sub>6</sub> ·6H <sub>2</sub> O			118							
Cobalt(II) iodate	Co(IO <sub>3</sub> ) <sub>2</sub> ·2H <sub>2</sub> O			1.02	0.9	0.88	0.82	0.73		0.7	
Cobalt(II) iodide	CoI <sub>2</sub>			203							
Cobalt(II) nitrate	Co(NO <sub>3</sub> ) <sub>2</sub>	84	89.6	97.4	111	125	174	204	300		
Cobalt(II) nitrite	Co(NO <sub>2</sub> ) <sub>2</sub>	0.076	0.24	0.4	0.61	0.85					
Cobalt oxalate	CoC <sub>2</sub> O <sub>4</sub> ·2H <sub>2</sub> O			2.6972E-9							
Cobalt(II) perchlorate	Co(ClO <sub>4</sub> ) <sub>2</sub>			104							
Cobalt(II) sulfate	CoSO <sub>4</sub>	25.5	30.5	36.1	42	48.8	55	53.8	45.3	38.9	
Copper(I) chloride	CuCl			0.0099							
Copper(I) cyanide	CuCN			1.602E-09							
Copper(I) hydroxide	CuOH			8.055E-07							
Copper(I) iodide	CuI			0.00001997							
Copper(I) sulfide	Cu <sub>2</sub> S			1.361E-15							
Copper(I) thiocyanate	CuSCN			8.427E-07							
Copper(II) bromide	CuBr <sub>2</sub>	107	116	126	128	131					
Copper(II) carbonate	CuCO <sub>3</sub>			0.0001462							
Copper(II) chlorate	Cu(ClO <sub>3</sub> ) <sub>2</sub>			242							
Copper(II) chloride	CuCl <sub>2</sub>	68.6	70.9	73	77.3	87.6	96.5	104	108	120	
Copper(II) chromate	CuCrO <sub>4</sub>			0.03407							
Copper(II) fluoride	CuF <sub>2</sub>			0.075							
Copper(II) fluorosilicate	CuSiF <sub>6</sub>	73.5	76.5	81.6	84.1	91.2		93.2			
Copper(II) formate	Cu(HCO <sub>2</sub> ) <sub>2</sub>			12.5							
Copper(II) hydroxide	Cu(OH) <sub>2</sub>			0.000001722							
Copper(II) iodate	Cu(IO <sub>3</sub> ) <sub>2</sub> ·2H <sub>2</sub> O			0.109							
Copper(II) nitrate	Cu(NO <sub>3</sub> ) <sub>2</sub>	83.5	100	125	156	163	182	208	222	247	
Copper oxalate	CuC <sub>2</sub> O <sub>4</sub> ·2H <sub>2</sub> O			2.1627E-10							
Copper(II) perchlorate	Cu(ClO <sub>4</sub> ) <sub>2</sub>				146						
Copper(II) selenate	CuSeO <sub>4</sub>	12	14.5	17.5	21	25.2	36.5	53.7			
Copper(II) selenite	CuSeO <sub>3</sub>			0.002761							
Copper(II) sulfate		23.1	27.5	32	37.8	44.6	61.8	83.8		114	

	CuSO <sub>4</sub> ·5H <sub>2</sub> O													
Copper(II) sulfide	CuS				2.4E-17									

**D**

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Dysprosium(III) chromate	Dy <sub>2</sub> (CrO <sub>4</sub> ) <sub>3</sub> ·10H <sub>2</sub> O			0.663								

**E**

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Erbium(III) hydroxide	Er(OH) <sub>3</sub>			0.00001363								
Europium(III) hydroxide	Eu(OH) <sub>3</sub>			0.00001538								
Europium(III) sulfate	Eu <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·8H <sub>2</sub> O			2.56								

**F**

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Fructose	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>			375.0		538.0						

**G**

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Gadolinium(III) acetate	Gd(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub> ·4H <sub>2</sub> O			11.6								
Gadolinium(III) bicarbonate	Cd(HCO <sub>3</sub> ) <sub>3</sub>			5.61								
Gadolinium(III) bromate	Gd(BrO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O	50.2	70.1	95.6		126	166					
Gadolinium(III) hydroxide	Gd(OH) <sub>3</sub>			0.00001882								
Gadolinium(III) sulfate	Gd <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	3.98	3.3	2.6		2.32						
D-Galactose	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>			10.3								68.3
Gallium hydroxide	Ga(OH) <sub>3</sub>			8.616E-09								
Gallium oxalate	Ga <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> ·4 <sub>2</sub> O			0.4								
Gallium selenate	Ga <sub>2</sub> (SeO <sub>4</sub> ) <sub>3</sub> ·16H <sub>2</sub> O			18.1								
D-Glucose	C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>			83								
Gold(III) chloride	AuCl <sub>3</sub>			68								
Gold(V) oxalate	Au <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>5</sub>			0.258								

**H**

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Hafnium(III) hydroxide	Hf(OH) <sub>3</sub>			0.000450305								
Hafnium(IV) hydroxide	Hf(OH) <sub>4</sub>			0.000004503								
Helium	He			0.6								
Holmium(III) hydroxide	Ho(OH) <sub>3</sub>			0.00002519								
Holmium(III) sulfate	Ho <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·8H <sub>2</sub> O			8.18	6.1	4.52						
Hydrogen chloride	HCl	81	75	70	65.5	61	57.5	53	50	47	43	40
Hydrogen sulfide	H <sub>2</sub> S			0.33								

**I**

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C

Indium(III) bromide	InBr <sub>3</sub>			571																		
Indium(III) chloride	InCl <sub>3</sub>		210	212																		
Indium(III) fluoride	InF <sub>3</sub>			11.2																		
Indium(III) hydroxide	In(OH) <sub>3</sub>			3.645E-08																		
Indium(III) iodate	In(IO <sub>3</sub> ) <sub>3</sub>			0.067																		
Indium(III) sulfide	In <sub>2</sub> S <sub>3</sub>			2.867E-14																		
Iron(II) bromide	FeBr <sub>2</sub>	101	109	117	124	133		144		168	176	184										
Iron(II) carbonate	FeCO <sub>3</sub>			0.00006554																		
Iron(II) chloride	FeCl <sub>2</sub>	49.7	59	62.5	66.7	70		78.3		88.7	92.3	94.9										
Iron(II) fluorosilicate	FeSiF <sub>6</sub> ·6H <sub>2</sub> O	72.1	74.4		77			84		88		100										
Iron(II) hydroxide	Fe(OH) <sub>2</sub>			0.00005255																		
Iron(II) nitrate	Fe(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O	113	134																			
Iron(II) oxalate	FeC <sub>2</sub> O <sub>4</sub> ·2H <sub>2</sub> O			0.008																		
Iron(II) perchlorate	Fe(ClO <sub>4</sub> ) <sub>2</sub> ·6H <sub>2</sub> O			299																		
Iron(II) sulfate	FeSO <sub>4</sub> ·7H <sub>2</sub> O	28.8	40	48	60	73.3		101	79.9	68.3	57.8											
Iron(III) arsenate	FeAsO <sub>4</sub>			1.47E-09																		
Iron(III) chloride	FeCl <sub>3</sub> ·6H <sub>2</sub> O	74.4		91.8	107																	
Iron(III) fluoride	FeF <sub>3</sub>			0.091																		
Iron(III) hydroxide	Fe(OH) <sub>3</sub>			2.097E-09																		
Iron(III) iodate	Fe(IO <sub>3</sub> ) <sub>3</sub>			0.36																		
Iron(III) nitrate	Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O	112		138		175																
Iron(III) perchlorate	Fe(ClO <sub>4</sub> ) <sub>3</sub>	289		368	422	478		772														
Iron(III) sulfate	Fe <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·9H <sub>2</sub> O			440																		

**L**

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Lactose	C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>			8								
Lanthanum(III) acetate	La(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub> ·H <sub>2</sub> O			16.9								
Lanthanum(III) bromate	La(BrO <sub>3</sub> ) <sub>3</sub>	98	120	149	200							
Lanthanum(III) iodate	La(IO <sub>3</sub> ) <sub>3</sub>			0.04575								
Lanthanum(III) molybdate	La <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub>			0.002473								
Lanthanum(III) nitrate	La(NO <sub>3</sub> ) <sub>3</sub>	100		136		168		247				
Lanthanum(III) selenate	La <sub>2</sub> (SeO <sub>4</sub> ) <sub>3</sub>	50.5	45	45	45	45		18.5		5.4	2.2	
Lanthanum(III) sulfate	La <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	3	2.72	2.33	1.9	1.67		1.26		0.91	0.79	0.68
Lanthanum(III) tungstate	La <sub>2</sub> (WO <sub>4</sub> ) <sub>3</sub> ·3H <sub>2</sub> O			6.06								
Lead(II) acetate	Pb(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>	19.8	29.5	44.3	69.8	116						
Lead(II) azide	Pb(N <sub>3</sub> ) <sub>2</sub>			0.0249								
Lead(II) bromate	Pb(BrO <sub>3</sub> ) <sub>2</sub>			7.92								
Lead(II) bromide	PbBr <sub>2</sub>	0.45	0.63	0.86	1.12	1.5		2.29		3.32	3.86	4.55
Lead(II) carbonate	PbCO <sub>3</sub>			0.00007269								
Lead(II) chlorate	Pb(ClO <sub>3</sub> ) <sub>2</sub>			144								
Lead(II) chloride	PbCl <sub>2</sub>	0.67	0.82	1	1.2	1.42		1.94		2.54	2.88	3.2

Lead(II) chromate	PbCrO <sub>4</sub>			0.0000171							
Lead(II) ferrocyanide	PbFe(CN) <sub>6</sub>			0.0005991							
Lead(II) fluoride	PbF <sub>2</sub>			0.04634							
Lead(II) fluorosilicate	PbSiF <sub>6</sub>	190		222			403		428		463
Lead(II) hydrogen phosphate	PbHPO <sub>4</sub>			0.0003457							
Lead(II) hydrogen phosphite	PbHPO <sub>3</sub>			0.02187							
Lead(II) hydroxide	Pb(OH) <sub>2</sub>			0.0001615							
Lead(II) iodate	Pb(IO <sub>3</sub> ) <sub>2</sub>			0.0024							
Lead(II) iodide	PbI <sub>2</sub>	0.044	0.056	0.069	0.09	0.124		0.193		0.294	0.42
Lead(II) molybdate	PbMoO <sub>4</sub>			0.00001161							
Lead(II) nitrate	Pb(NO <sub>3</sub> ) <sub>2</sub>	37.5	46.2	54.3	63.4	72.1		91.6		111	133
Lead(II) oxalate	PbC <sub>2</sub> O <sub>4</sub>			0.0006495							
Lead(II) perchlorate	Pb(ClO <sub>4</sub> ) <sub>2</sub> ·3H <sub>2</sub> O			440							
Lead(II) selenate	PbSeO <sub>4</sub>			0.0131							
Lead(II) sulfate	PbSO <sub>4</sub>			0.003836							
Lead(II) sulfide	PbS			6.767E-13							
Lead(II) tartrate	PbC <sub>4</sub> H <sub>4</sub> O <sub>6</sub>			0.0025							
Lead(II) thiocyanate	Pb(SCN) <sub>2</sub>			0.553							
Lead(II) thiosulfate	PbS <sub>2</sub> O <sub>3</sub>			0.0202							
Lead(II) tungstate	PbWO <sub>4</sub>			0.02838							
Lead(IV) hydroxide	Pb(OH) <sub>4</sub>			7.229E-11							
Lithium acetate	LiC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	31.2	35.1	40.8	50.6	68.6					
Lithium azide	LiN <sub>3</sub>	61.3	64.2	67.2	71.2	75.4		86.6			100
Lithium benzoate	LiC <sub>7</sub> H <sub>5</sub> O <sub>2</sub>	38.9	41.6	44.7	53.8						
Lithium bicarbonate	LiHCO <sub>3</sub>			5.74							
Lithium bromate	LiBrO <sub>3</sub>	154	166	179	198	221		269		308	329 355
Lithium bromide	LiBr	143	147	160	183	211		223		245	266
Lithium carbonate	Li <sub>2</sub> CO <sub>3</sub>	1.54	1.43	1.33	1.26	1.17		1.01		0.85	0.72
Lithium chlorate	LiClO <sub>3</sub>	241	283	372	488	604		777			
Lithium chloride	LiCl	69.2	74.5	83.5	86.2	89.8		98.4		112	121 128
Lithium chromate	Li <sub>2</sub> CrO <sub>4</sub> ·2H <sub>2</sub> O			142							
Lithium dichromate	Li <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> ·2H <sub>2</sub> O				151						
Lithium dihydrogen phosphate	LiH <sub>2</sub> PO <sub>4</sub>	126									
Lithium fluoride	LiF			0.16							
Lithium fluorosilicate	Li <sub>2</sub> SiF <sub>6</sub> ·2H <sub>2</sub> O			73							
Lithium formate	LiHCO <sub>2</sub>	32.3	35.7	39.3	44.1	49.5		64.7		92.7	116 138
Lithium hydrogen phosphite	Li <sub>2</sub> HPO <sub>3</sub>	4.43			9.97	7.61		7.11			6.03
Lithium hydroxide	LiOH	11.9	12.1	12.3		12.7		13.2	14.6	16.6	17.8 19.1
Lithium iodide	LiI	151	157	165	171	179		202		435	440 481
Lithium molybdate	Li <sub>2</sub> MoO <sub>4</sub>	82.6		79.5	79.5	78					73.9
Lithium nitrate	LiNO <sub>3</sub>	53.4	60.8	70.1	138	152		175			
Lithium nitrite	LiNO <sub>2</sub>	70.9	82.5	96.8	114	133		177		233	272 324
Lithium oxalate	Li <sub>2</sub> C <sub>2</sub> O <sub>4</sub>			8							

Lithium perchlorate	$\text{LiClO}_4$	42.7	49	56.1	63.6	72.3		92.3		128	151	
Lithium permanganate	$\text{LiMnO}_4$			71.4								
Lithium phosphate	$\text{Li}_3\text{PO}_4$			0.03821								
Lithium selenide	$\text{Li}_2\text{Se}$			57.7								
Lithium selenite	$\text{Li}_2\text{SeO}_3$	25	23.3	21.5	19.6	17.9		14.7		11.9	11.1	9.9
Lithium sulfate	$\text{Li}_2\text{SO}_4$	36.1	35.5	34.8	34.2	33.7		32.6		31.4	30.9	
Lithium tartrate	$\text{Li}_2\text{C}_4\text{H}_4\text{O}_6$	42	31.8	27.1	26.6	27.2		29.5				
Lithium thiocyanate	$\text{LiSCN}$			114	131	153						
Lithium vanadate	$\text{LiVO}_3$	2.5		4.82	6.28	4.38		2.67				
Lutetium(III) hydroxide	$\text{Lu}(\text{OH})_3$			0.00001164								
Lutetium(III) sulfate	$\text{Lu}_2(\text{SO}_4)_3 \cdot 8\text{H}_2\text{O}$			57.9								

## M

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Magnesium acetate	$\text{Mg}(\text{C}_2\text{H}_3\text{O}_2)_2$	56.7	59.7	53.4	68.6	75.7		118				
Magnesium benzoate	$\text{Mg}(\text{C}_7\text{H}_5\text{O}_2)_2 \cdot \text{H}_2\text{O}$					5						
Magnesium bromate	$\text{Mg}(\text{BrO}_3)_2 \cdot 6\text{H}_2\text{O}$					58						
Magnesium bromide	$\text{MgBr}_2$	98	99	101	104	106		112				125
Magnesium carbonate	$\text{MgCO}_3$			0.039								
Magnesium chlorate	$\text{Mg}(\text{ClO}_3)_2$	114	123	135	155	178		242			268	
Magnesium chloride	$\text{MgCl}_2$	52.9	53.6	54.6	55.8	57.5		61		66.1	69.5	73.3
Magnesium chromate	$\text{MgCrO}_4 \cdot 7\text{H}_2\text{O}$			137								
Magnesium fluoride	$\text{MgF}_2$			0.007325								
Magnesium fluorosilicate	$\text{MgSiF}_6$	26.3		30.8		34.9		44.4				
Magnesium formate	$\text{Mg}(\text{HCO}_2)_2$	14	14.2	14.4	14.9	15.9		17.9		20.5	22.2	22.9
Magnesium hydroxide	$\text{Mg}(\text{OH})_2$			0.0009628								
Magnesium iodate	$\text{Mg}(\text{IO}_3)_2$		7.2	8.6	10	11.7		15.2		15.5	15.6	
Magnesium iodide	$\text{MgI}_2$	120		140		173				186		
Magnesium molybdate	$\text{MgMoO}_4$			13.7								
Magnesium nitrate	$\text{Mg}(\text{NO}_3)_2$	62.1	66	69.5	73.6	78.9		78.9		91.6	106	
Magnesium oxalate	$\text{MgC}_2\text{O}_4$			0.104								
Magnesium perchlorate	$\text{Mg}(\text{ClO}_4)_2$			49.6								
Magnesium phosphate	$\text{Mg}_3(\text{PO}_4)_2$			0.0002588								
Magnesium selenate	$\text{MgSeO}_4$	20	30.4	38.3	44.3	48.6		55.8				
Magnesium selenite	$\text{MgSeO}_3$			0.05454								
Magnesium sulfate	$\text{MgSO}_4$	22	28.2	33.7	38.9	44.5		54.6		55.8	52.9	50.4
Magnesium thiosulfate	$\text{MgS}_2\text{O}_3$			50								
Maltose	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$			108								
D-Mannose	$\text{C}_6\text{H}_{12}\text{O}_6$			248								
Manganese(II) bromide	$\text{MnBr}_2$	127	136	147	157	169		197		225	226	228
Manganese(II) carbonate	$\text{MnCO}_3$			0.00004877								
Manganese(II) chloride	$\text{MnCl}_2$	63.4	68.1	73.9	80.8	88.5		109		113	114	115

Manganese(II) ferrocyanide	$\text{Mn}_2\text{Fe}(\text{CN})_6$			0.001882								
Manganese(II) fluoride	$\text{MnF}_2$			10.6		0.67		0.44				0.48
Manganese(II) fluorosilicate	$\text{MnSiF}_6 \cdot 6\text{H}_2\text{O}$			140								
Manganese(II) hydroxide	$\text{Mn}(\text{OH})_2$			0.0003221								
Manganese(II) nitrate	$\text{Mn}(\text{NO}_3)_2$	102	118	139	206							
Manganese(II) oxalate	$\text{MnC}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$	0.02	0.024	0.028	0.033							
Manganese(II) sulfate	$\text{MnSO}_4$	52.9	59.7	62.9	62.9	60		53.6		45.6	40.9	35.3
Mercury(I) azide	$\text{Hg}_2(\text{N}_3)_2$			0.02727								
Mercury(I) bromide	$\text{Hg}_2\text{Br}_2$			0.000001352								
Mercury(I) carbonate	$\text{Hg}_2\text{CO}_3$			4.351E-07								
Mercury(I) chloride	$\text{Hg}_2\text{Cl}_2$			0.00003246								
Mercury(I) chromate	$\text{Hg}_2\text{CrO}_4$			0.002313								
Mercury(I) cyanide	$\text{Hg}_2(\text{CN})_2$			2.266E-12								
Mercury(I) perchlorate	$\text{Hg}_2(\text{ClO}_4)_2$	282	325	407	455	499		541		580		
Mercury(I) sulfate	$\text{Hg}_2\text{SO}_4$			0.04277								
Mercury(II) acetate	$\text{Hg}(\text{C}_2\text{H}_3\text{O}_2)_2$			25								
Mercury(II) benzoate	$\text{Hg}(\text{C}_7\text{H}_5\text{O}_2)_2 \cdot 2\text{O}$			1.1								
Mercury(II) bromate	$\text{Hg}(\text{BrO}_3)_2 \cdot 2\text{H}_2\text{O}$			0.08								
Mercury(II) bromide	$\text{HgBr}_2$	0.3	0.4	0.56	0.66	0.91		1.68		2.77		4.9
Mercury(II) chlorate	$\text{Hg}(\text{ClO}_3)_2$			25								
Mercury(II) chloride	$\text{HgCl}_2$	3.63	4.82	6.57	8.34	10.2		16.3		30		61.3
Mercury(II) cyanide	$\text{Hg}(\text{CN})_2$			9.3								
Mercury(II) iodate	$\text{Hg}(\text{IO}_3)_2$			0.002372								
Mercury(II) iodide	$\text{HgI}_2$			0.006								
Mercury(II) oxalate	$\text{HgC}_2\text{O}_4$			0.011								
Mercury(II) sulfide	$\text{HgS}$			2.943E-25								
Mercury(II) thiocyanate	$\text{Hg}(\text{SCN})_2$			0.063								

## N

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Neodymium(III) acetate	$\text{Nd}(\text{C}_2\text{H}_3\text{O}_2)_3 \cdot \text{H}_2\text{O}$			26.2								
Neodymium(III) bromate	$\text{Nd}(\text{BrO}_3)_3$	43.9	59.2	75.6	95.2	116						
Neodymium(III) chloride	$\text{NdCl}_3$		96.7	98	99.6	102		105				
Neodymium(III) molybdate	$\text{Nd}_2(\text{MoO}_4)_3$				0.0019							
Neodymium(III) nitrate	$\text{Nd}(\text{NO}_3)_3$	127	142	145	159		211					
Neodymium(III) selenate	$\text{Nd}_2(\text{SeO}_4)_3$	45.2	44.6	41.8	39.9	39.9		43.9		7	3.3	
Neodymium(III) sulfate	$\text{Nd}_2(\text{SO}_4)_3$	13	9.7	7.1	5.3	4.1		2.8		2.2	1.2	
Nickel(II) bromate	$\text{Ni}(\text{BrO}_3)_2 \cdot 6\text{H}_2\text{O}$			28								
Nickel(II) bromide	$\text{NiBr}_2$	113	122	131	138	144		153		154		155
Nickel(II) carbonate	$\text{NiCO}_3$			0.0009643								
Nickel(II) chlorate	$\text{Ni}(\text{ClO}_3)_2$	111	120	133	155	181		221		308		
Nickel(II) chloride	$\text{NiCl}_2$	53.4	56.3	66.8	70.6	73.2		81.2		86.6		87.6

Nickel(II) fluoride	NiF <sub>2</sub>		2.55	2.56				2.56			2.59	
Nickel(II) iodate	Ni(IO <sub>3</sub> ) <sub>2</sub>	0.74		0.062	1.43							
Nickel(II) iodide	NiI <sub>2</sub>	124	135	148	161	174		184		187	188	
Nickel(II) nitrate	Ni(NO <sub>3</sub> ) <sub>2</sub>	79.2		94.2	105	119		158		187	188	
Nickel oxalate	NiC <sub>2</sub> O <sub>4</sub> ·2H <sub>2</sub> O			3.9811E-10								
Nickel(II) perchlorate	Ni(ClO <sub>4</sub> ) <sub>2</sub>	105	107	110	113	117						
Nickel(II) pyrophosphate	Ni <sub>2</sub> P <sub>2</sub> O <sub>7</sub>			0.001017								
Nickel(II) sulfate	NiSO <sub>4</sub> ·6H <sub>2</sub> O			44.4	46.6	49.2		55.6		64.5	70.1	76.7
Nitric oxide	NO			0.0056								
Nitrous oxide	N <sub>2</sub> O			0.112								

## O

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Oxygen at a partial pressure of 21 kPa	O <sub>2</sub>	0.00146	0.00113	0.00091	0.00076	0.00065						
Oxalic acid	H <sub>2</sub> C <sub>2</sub> O <sub>4</sub>			14.3								

## P

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Palladium(II) hydroxide	Pd(OH) <sub>2</sub>			4.106E-10								
Palladium(IV) hydroxide	Pd(OH) <sub>4</sub>			5.247E-14								
Phenol	C <sub>6</sub> H <sub>5</sub> OH			8.3		miscible						
Platinum(II) hydroxide	Pt(OH) <sub>2</sub>			3.109E-11								
Platinum(IV) bromide	PtBr <sub>4</sub>			1.352E-07								
Plutonium(III) fluoride	PuF <sub>3</sub>			0.0003144								
Plutonium(IV) fluoride	PuF <sub>4</sub>			0.0003622								
Plutonium(IV) iodate	Pu(IO <sub>3</sub> ) <sub>4</sub>			0.07998								
Polonium(II) sulfide	PoS			2.378E-14								
Potassium acetate	KC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	216	233	256	283	324		350		381	398	
Potassium arsenate	K <sub>3</sub> AsO <sub>4</sub>			19								
Potassium azide	KN <sub>3</sub>	41.4	46.2	50.8	55.8	61						106
Potassium benzoate	KC <sub>7</sub> H <sub>5</sub> O <sub>2</sub>		65.8	70.7	76.7	82.1						
Potassium bromate	KBrO <sub>3</sub>	3.09	4.72	6.91	9.64	13.1		22.7		34.1		49.9
Potassium bromide	KBr	53.6	59.5	65.3	70.7	75.4		85.5		94.9	99.2	104
Potassium hexabromoplatinate	K <sub>2</sub> PtBr <sub>6</sub>			1.89								
Potassium carbonate	K <sub>2</sub> CO <sub>3</sub>	105	109	111	114	117		127		140	148	156
Potassium chlorate	KClO <sub>3</sub>	3.3	5.2	7.3	10.1	13.9		23.8		37.5	46	56.3
Potassium chloride	KCl	28	31.2	34.2	37.2	40.1		45.8		51.3	53.9	56.3
Potassium chromate	K <sub>2</sub> CrO <sub>4</sub>	56.3	60	63.7	66.7	67.8		70.1			74.5	
Potassium cyanide	KCN			50								
Potassium dichromate	K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>	4.7	7	12.3	18.1	26.3		45.6		73		
Potassium dihydrogen arsenate	KH <sub>2</sub> AsO <sub>4</sub>			19								
Potassium dihydrogen phosphate	KH <sub>2</sub> PO <sub>4</sub>	14.8	18.3	22.6	28	35.5		50.2		70.4	83.5	

Potassium ferricyanide	$K_3Fe(CN)_6$	30.2	38	46	53	59.3		70			91
Potassium ferrocyanide	$K_4Fe(CN)_6$	14.3	21.1	28.2	35.1	41.4		54.8	66.9	71.5	74.2
Potassium fluoride	KF	44.7	53.5	94.9	108	138		142	150		
Potassium formate	$KHCO_2$		313	337	361	398		471	580	658	
Potassium hydrogen carbonate	$KHCO_3$	22.5	27.4	33.7	39.9	47.5		65.6			
Potassium hydrogen phosphate	$K_2HPO_4$			150							
Potassium hydrogen sulfate	$KHSO_4$	36.2		48.6	54.3	61		76.4	96.1		122
Potassium hydroxide	KOH	95.7	103	112	126	134		154			178
Potassium iodate	$KIO_3$	4.6	6.27	8.08	10.3	12.6		18.3	24.8		32.3
Potassium iodide	KI	128	136	144	153	162		176	192	198	206
Potassium nitrate	$KNO_3$	13.9	21.9	31.6	45.3	61.3		106	167	203	245
Potassium nitrite	$KNO_2$	279	292	306	320	329		348	376	390	410
Potassium oxalate	$K_2C_2O_4$	25.5	31.9	36.4	39.9	43.8		53.2	63.6	69.2	75.3
Potassium perchlorate	$KClO_4$	0.76	1.06	1.68	2.56	3.73		7.3	13.4	17.7	22.3
Potassium periodate	$KIO_4$	0.17	0.28	0.42	0.65	1		2.1	4.4	5.9	
Potassium permanganate	$KMnO_4$	2.83	4.31	6.34	9.03	12.6		22.1			
Potassium persulfate	$K_2S_2O_8$			4.7							
Potassium phosphate	$K_3PO_4$		81.5	92.3	108	133					
Potassium selenate	$K_2SeO_4$	107	109	111	113	115		119	121		122
Potassium sulfate	$K_2SO_4$	7.4	9.3	11.1	13	14.8		18.2	21.4	22.9	24.1
Potassium tetraphenylborate	$KBC_{24}H_{20}$			0.000018							
Potassium thiocyanate	KSCN	177	198	224	255	289		372	492	571	675
Potassium thiosulfate	$K_2S_2O_3$	96		155	175	205		238	293	312	
Potassium tungstate	$K_2WO_4$			51.5							
Praseodymium(III) acetate	$Pr(C_2H_3O_2)_3 \cdot H_2O$			32							
Praseodymium(III) bromate	$Pr(BrO_3)_3$	55.9	73	91.8	114	144					
Praseodymium(III) chloride	$PrCl_3$			104							
Praseodymium(III) molybdate	$Pr_2(MoO_4)_3$			0.0015							
Praseodymium(III) nitrate	$Pr(NO_3)_3$			112	162	178					
Praseodymium(III) sulfate	$Pr_2(SO_4)_3$	19.8	15.6	12.6	9.89	2.56		5.04	3.5	1.1	0.91

**R**

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Radium chloride	$RaCl_2$			19.6								
Radium iodate	$Ra(IO_3)_2$			0.04								
Radium nitrate	$Ra(NO_3)_2$			12								
Radium sulfate	$RaSO_4$			0.00021								
Raffinose	$C_{18}H_{32}O_{16} \cdot 5H_2O$			14								
Rubidium acetate	$RbC_2H_3O_2$					86						
Rubidium bromate	$RbBrO_3$				3.6	5.1						
Rubidium bromide	RbBr	90	99	108	119	132		158				
Rubidium chlorate	$RbClO_3$	2.1	3.1	5.4	8	11.6		22		38	49	63
Rubidium chloride	RbCl	77	84	91	98	104		115		127	133	143

Rubidium chromate	Rb <sub>2</sub> CrO <sub>4</sub>	62	67.5	73.6	78.9	85.6	95.7					
Rubidium dichromate	Rb <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>			5.9	10	15.2	32.3					
Rubidium fluoride	RbF			300								
Rubidium fluorosilicate	Rb <sub>2</sub> SiF <sub>6</sub>			0.157								
Rubidium formate	RbHCO <sub>2</sub>		443	554	614	694	900					
Rubidium hydrogen carbonate	RbHCO <sub>3</sub>			110								
Rubidium hydroxide	RbOH			180								
Rubidium iodate	RbIO <sub>3</sub>			1.96								
Rubidium iodide	RbI			144								
Rubidium nitrate	RbNO <sub>3</sub>	19.5	33	52.9	81.2	117	200	310	374	452		
Rubidium perchlorate	RbClO <sub>4</sub>	1.09	1.19	1.55	2.2	3.26	6.27	11	15.5	22		
Rubidium periodate	RbIO <sub>4</sub>			0.648								
Rubidium selenate	Rb <sub>2</sub> SeO <sub>4</sub>			159								
Rubidium sulfate	Rb <sub>2</sub> SO <sub>4</sub>	37.5	42.6	48.1	53.6	58.5	67.5	75.1	78.6	81.8		

## S

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100° C
Samarium acetate	Sm(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub> ·3H <sub>2</sub> O			15								
Samarium bromate	Sm(BrO <sub>3</sub> ) <sub>3</sub>	34.2	47.6	62.5	79	98.5						
Samarium chloride	SmCl <sub>3</sub>		92.4	93.4	94.6	96.9						
Samarium sulfate	Sm <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·8H <sub>2</sub> O			2.7	3.1							
Scandium oxalate	Sc <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> ·6H <sub>2</sub> O			0.006								
Scandium sulfate	Sc <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·5H <sub>2</sub> O			54.6								
Silicon dioxide	SiO <sub>2</sub>			0.012								
Silver acetate	AgC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	0.73	0.89	1.05	1.23	1.43		1.93		2.59		
Silver azide	AgN <sub>3</sub>			0.0007931								
Silver bromate	AgBrO <sub>3</sub>		0.11	0.16	0.23	0.32		0.57		0.94	1.33	
Silver bromide	AgBr			0.00001328								
Silver carbonate	Ag <sub>2</sub> CO <sub>3</sub>			0.003489								
Silver chlorate	AgClO <sub>3</sub>		10.4	15.3	20.9	26.8						
Silver chloride	AgCl			0.0001923			0.000052					
Silver chlorite	AgClO <sub>2</sub>			0.248								
Silver chromate	Ag <sub>2</sub> CrO <sub>4</sub>			0.002157								
Silver cyanide	AgCN			1.467E-07								
Silver dichromate	Ag <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub>			0.159								
Silver fluoride	AgF	85.9	120	172	190	203						
Silver nitrate	AgNO <sub>3</sub>	122	167	216	265	311		440		585	652	733
Silver oxalate	Ag <sub>2</sub> C <sub>2</sub> O <sub>4</sub>			.00327								
Silver oxide	Ag <sub>2</sub> O			.0013								
Silver perchlorate	AgClO <sub>4</sub>	455	484	525	594	635						793

Silver permanganate	$\text{AgMnO}_4$			0.9							
Silver sulfate	$\text{Ag}_2\text{SO}_4$	0.57	0.7	0.8	0.89	0.98		1.15	1.3	1.36	1.41
Silver vanadate	$\text{AgVO}_3$			0.01462							
Sodium acetate	$\text{CH}_3\text{COONa}$	36.2	40.8	46.4	54.6	65.6		139	153	161	170
Sodium azide	$\text{NaN}_3$	38.9	39.9	40.8							
Sodium benzoate	$\text{NaC}_7\text{H}_5\text{O}_2$			66							
Sodium bromate	$\text{NaBrO}_3$	24.2	30.3	36.4	42.6	48.8		62.6	75.7		90.8
Sodium bromide	$\text{NaBr}$	80.2	85.2	90.8	98.4	107		118	120	121	121
Sodium carbonate	$\text{Na}_2\text{CO}_3$	7	12.5	21.5	39.7	49		46	43.9	43.9	
Sodium chlorate	$\text{NaClO}_3$	79.6	87.6	95.9	105	115		137	167	184	204
Sodium chloride	$\text{NaCl}$	35.7	35.8	35.9	36.1	36.4		37.1	38	38.5	39.2
Sodium chromate	$\text{Na}_2\text{CrO}_4$	31.7	50.1	84	88	96		115	125		126
Sodium cyanide	$\text{NaCN}$	40.8	48.1	58.7	71.2	dec					
Sodium dichromate	$\text{Na}_2\text{Cr}_2\text{O}_7$	163	172	183	198	215		269	376	405	415
Monosodium phosphate	$\text{NaH}_2\text{PO}_4$	56.5	69.8	86.9	107	133		172	211	234	
Sodium fluoride	$\text{NaF}$	3.66		4.06	4.22	4.4		4.68	4.89		5.08
Sodium formate	$\text{HCOONa}$	43.9	62.5	81.2	102	108		122	138	147	160
Sodium hydrogen carbonate	$\text{NaHCO}_3$	7	8.1	9.6	11.1	12.7		16			
Sodium hydroxide	$\text{NaOH}$		98	109	119	129		174			
Sodium iodate	$\text{NaIO}_3$	2.48	4.59	8.08	10.7	13.3		19.8	26.6	29.5	33
Sodium iodide	$\text{NaI}$	159	167	178	191	205		257	295		302
Sodium molybdate	$\text{Na}_2\text{MoO}_4$	44.1	64.7	65.3	66.9	68.6		71.8			
Sodium nitrate	$\text{NaNO}_3$	73	80.8	87.6	94.9	102		122	148		180
Sodium nitrite	$\text{NaNO}_2$	71.2	75.1	80.8	87.6	94.9		111	133		160
Sodium oxalate	$\text{Na}_2\text{C}_2\text{O}_4$	2.69	3.05	3.41	3.81	4.18		4.93	5.71		6.5
Sodium perchlorate	$\text{NaClO}_4$	167	183	201	222	245		288	306		329
Sodium periodate	$\text{NaIO}_4$	1.83	5.6	10.3	19.9	30.4					
Sodium phosphate	$\text{Na}_3\text{PO}_4$	4.5	8.2	12.1	16.3	20.2		20.9	60	68.1	77
Sodium pyrophosphate	$\text{Na}_4\text{P}_2\text{O}_7$	2.26									
Sodium selenate	$\text{Na}_2\text{SeO}_4$	13.3	25.2	26.9	77	81.8		78.6	74.8	73	72.7
Sodium sulfate	$\text{Na}_2\text{SO}_4$	4.9	9.1	19.5	40.8	48.8		45.3	43.7	42.7	42.5
Sodium thiosulfate	$\text{Na}_2\text{S}_2\text{O}_3$	71.5		73		77.6			90.8		97.2
Strontium acetate	$\text{Sr}(\text{C}_2\text{H}_3\text{O}_2)_2$	37	42.9	41.1	39.5	38.3		36.8	36.1	36.2	36.4
Strontium bromate	$\text{Sr}(\text{BrO}_3)_2 \cdot \text{H}_2\text{O}$			30.9							41
Strontium bromide	$\text{SrBr}_2$	85.2	93.4	102	112	123		150	182		223
Strontium chlorate	$\text{SrClO}_3$			175							
Strontium chloride	$\text{SrCl}_2$	43.5	47.7	52.9	58.7	65.3		81.8	90.5		101
Strontium chromate	$\text{SrCrO}_4$			0.085	0.090						
Strontium fluoride	$\text{SrF}_2$			0.00012							
Strontium formate	$\text{Sr}(\text{HCO}_2)_2$	9.1	10.6	12.7	15.2	17.8		25	31.9	32.9	34.4
Strontium hydroxide	$\text{Sr}(\text{OH})_2 \cdot 8\text{H}_2\text{O}$	0.91	1.25	1.77	2.64	3.95		8.42	20.2	44.5	91.2

Strontium iodate	$\text{Sr}(\text{IO}_3)_2$			0.19								0.35
Strontium iodide	$\text{SrI}_2$	165		178		192		218		270	365	383
Strontium molybdate	$\text{SrMoO}_4$			0.01107								
Strontium nitrate	$\text{Sr}(\text{NO}_3)_2$	39.5	52.9	69.5	88.7	89.4		93.4		96.9	98.4	
Strontium selenate	$\text{SrSeO}_4$			0.656								
Strontium sulfate	$\text{SrSO}_4$	0.0113	0.0129	0.0132	0.0138	0.0141		0.0131		0.0116	0.0115	
Strontium thiosulfate	$\text{SrS}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$		2.5									
Strontium tungstate	$\text{SrWO}_4$			0.0003957								
Sucrose	$\text{C}_{12}\text{H}_{22}\text{O}_{11}$	181.9	190.6	201.9	216.7	235.6	259.6	288.8	323.7	365.1	414.9	476.0
Sulfur dioxide	$\text{SO}_2$			9.4								

## T

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Terbium bromate	$\text{Tb}(\text{BrO}_3)_3 \cdot 9\text{H}_2\text{O}$	66.4	89.7	117	152	198						
Terbium sulfate	$\text{Tb}_2(\text{SO}_4)_3 \cdot 8\text{H}_2\text{O}$			3.56								
Thallium(I) azide	$\text{TlN}_3$	0.171	0.236	0.364								
Thallium(I) bromate	$\text{TlBrO}_3$			0.306								
Thallium(I) bromide	$\text{TlBr}$	0.022	0.032	0.048	0.068	0.097		0.117				
Thallium(I) carbonate	$\text{Tl}_2\text{CO}_3$			5.3								
Thallium(I) chlorate	$\text{TlClO}_3$	2		3.92		12.7				36.6		57.3
Thallium(I) cyanide	$\text{TlCN}$			16.8								
Thallium(I) fluoride	$\text{TlF}$			78								
Thallium(I) hydrogen carbonate	$\text{TlHCO}_3$			500								
Thallium(I) hydroxide	$\text{TlOH}$	25.4	29.6	35	40.4	49.4		73.3		106	126	150
Thallium(I) iodate	$\text{TlIO}_3$			0.06678								
Thallium(I) iodide	$\text{TlI}$	0.002		0.006		0.015		0.035		0.07		0.12
Thallium(I) nitrate	$\text{TlNO}_3$	3.9	6.22	9.55	14.3	21		46.1		110	200	414
Thallium(I) oxalate	$\text{Tl}_2\text{C}_2\text{O}_4$			1.83								
Thallium(I) perchlorate	$\text{TlClO}_4$	6	8.04	13.1	19.7	28.3		50.8		81.5		
Thallium(I) phosphate	$\text{Tl}_3\text{PO}_4$			0.15								
Thallium(I) pyrophosphate	$\text{Tl}_4\text{P}_2\text{O}_7$			40								
Thallium(I) selenate	$\text{Tl}_2\text{SeO}_4$		2.17	2.8						8.5		10.8
Thallium(I) sulfate	$\text{Tl}_2\text{SO}_4$	2.73	3.7	4.87	6.16	7.53		11		14.6	16.5	18.4
Thallium(I) vanadate	$\text{TlVO}_3$			0.87								
Thorium(IV) fluoride	$\text{ThF}_4 \cdot 4\text{H}_2\text{O}$			0.914								
Thorium(IV) iodate	$\text{Th}(\text{IO}_3)_4$			0.03691								
Thorium(IV) nitrate	$\text{Th}(\text{NO}_3)_4$	186	187	191								
Thorium(IV) selenate	$\text{Th}(\text{SeO}_4)_2 \cdot 9\text{H}_2\text{O}$	0.65										
Thorium(IV) sulfate	$\text{Th}(\text{SO}_4)_2 \cdot 9\text{H}_2\text{O}$	0.74	0.99	1.38	1.99	3						
Tin(II) bromide	$\text{SnBr}_2$	85										
Tin(II) chloride	$\text{SnCl}_2$	84										
Tin(II) fluoride	$\text{SnF}_2$			30								

Tin(II) iodide	SnI <sub>2</sub>				0.99	1.17	1.42		2.11		3.04	3.58	4.2
Tin(II) sulfate	SnSO <sub>4</sub>				18.9								
Trehalose	C <sub>12</sub> H <sub>22</sub> O <sub>11</sub>				68.9								

## U

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Uranyl acetate	UO <sub>2</sub> (C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> ·2H <sub>2</sub> O			7.69								
Uranyl chloride	UO <sub>2</sub> Cl <sub>2</sub>			320								
Uranyl formate	UO <sub>2</sub> (HCO <sub>2</sub> ) <sub>2</sub> ·H <sub>2</sub> O			7.2								
Uranyl iodate	UO <sub>2</sub> (IO <sub>3</sub> ) <sub>2</sub> ·H <sub>2</sub> O			0.124								
Uranyl nitrate	UO <sub>2</sub> (NO <sub>3</sub> ) <sub>2</sub>	98	107	122	141	167		317		388	426	474
Uranyl oxalate	UO <sub>2</sub> C <sub>2</sub> O <sub>4</sub>		0.45	0.5	0.61	0.8		1.22		1.94		3.16
Uranyl sulfate	UO <sub>2</sub> SO <sub>4</sub> ·3H <sub>2</sub> O			21								
Urea	CO(NH <sub>2</sub> ) <sub>2</sub>			108		167		251		400		733

## V

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Vanadium(V) oxide	V <sub>2</sub> O <sub>5</sub>			0.8								

## X

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Xenon	Xe			24								
Xylose	C <sub>5</sub> H <sub>10</sub> O <sub>5</sub>			117								

## Y

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C	
Ytterbium sulfate	Yb <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	44.2	37.5			22.2	17.2		10.4		6.4	5.8	4.7
Yttrium(III) acetate	Y(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub> ·4H <sub>2</sub> O			9.03									
Yttrium(III) bromate	Y(BrO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O			168									
Yttrium(III) bromide	YBr <sub>3</sub>	63.9		75.1		87.3		101		116	123		
Yttrium(III) chloride	YCl <sub>3</sub>	77.3	78.1	78.8	79.6	80.8							
Yttrium(III) fluoride	YF <sub>3</sub>			0.005769									
Yttrium(III) nitrate	Y(NO <sub>3</sub> ) <sub>3</sub>	93.1	106	123	143	163		200					
Yttrium(III) sulfate	Y <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub>	8.05	7.67	7.3	6.78	6.09		4.44		2.89	2.2		

## Z

Substance	Formula	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°	100°C
Zinc acetate	Zn(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub>			30								
Zinc bromide	ZnBr <sub>2</sub>	389		446	528	591		618		645		672
Zinc carbonate	ZnCO <sub>3</sub>			0.00004692								
Zinc chlorate	Zn(ClO <sub>3</sub> ) <sub>2</sub>	145	152	209	223							
Zinc chloride	ZnCl <sub>2</sub>	342	353	395	437	452		488		541		614
Zinc cyanide	Zn(CN) <sub>2</sub>			0.058								

Zinc fluoride	ZnF <sub>2</sub>			1.6								
Zinc formate	Zn(HCO <sub>2</sub> ) <sub>2</sub>	3.7	4.3	6.1	7.4		11.8		21.2	28.8	38	
Zinc iodate	Zn(IO <sub>3</sub> ) <sub>2</sub> ·2H <sub>2</sub> O			0.07749								
Zinc iodide	ZnI <sub>2</sub>	430		432		445		467		490		510
Zinc nitrate	Zn(NO <sub>3</sub> ) <sub>2</sub>	98			138	211						
Zinc oxalate	ZnC <sub>2</sub> O <sub>4</sub> ·2H <sub>2</sub> O			1.38E-9								
Zinc permanganate	Zn(MnO <sub>4</sub> ) <sub>2</sub>			33.3								
Zinc sulfate	ZnSO <sub>4</sub>	41.6	47.2	53.8	61.3	70.5		75.4		71.1		60.5
Zinc sulfite	ZnSO <sub>3</sub> ·2H <sub>2</sub> O			0.16								
Zinc tartrate	ZnC <sub>4</sub> H <sub>4</sub> O <sub>6</sub>			0.022	0.041	0.06		0.104		0.59		
Zirconium fluoride	ZrF <sub>4</sub>			1.32								
Zirconium sulfate	Zr(SO <sub>4</sub> ) <sub>2</sub> ·4H <sub>2</sub> O			52.5								

## External links

- [Solubility Database - International Union of Pure and Applied Chemistry / National Institute of Standards and Technology](#)

## References

- [Chemicalc v4.0](#) - a software that includes data on solubility
- [1] Learning, Food resources
- [2] Kaye and Laby Online
- [3] Chemfinder.com

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