SOLUBILITY PRODUCT CONSTANTS

Compound	**Formula**	K_{sp} (25 °C)
Aluminium hydroxide	$Al(OH)_3$	3×10^{-34}
Aluminium phosphate	$AlPO_4$	9.84×10^{-21}
Barium bromate	$Ba(BrO_3)_2$	2.43×10^{-4}
Barium carbonate	$BaCO_3$	2.58×10^{-9}
Barium chromate	$BaCrO_4$	1.17×10^{-10}
Barium fluoride	BaF_2	1.84×10^{-7}
Barium hydroxide octahydrate	$Ba(OH)_2\times8H_2O$	2.55×10^{-4}
Barium iodate	$Ba(IO_3)_2$	4.01×10^{-9}
Barium iodate monohydrate	$Ba(IO_3)_2\times H_2O$	1.67×10^{-9}
Barium molybdate	$BaMoO_4$	3.54×10^{-8}
Barium nitrate	$Ba(NO_3)_2$	4.64×10^{-3}
Barium selenate	$BaSeO_4$	3.40×10^{-8}
Barium sulfate	$BaSO_4$	1.08×10^{-10}
Barium sulfite	$BaSO_3$	5.0×10^{-10}
Beryllium hydroxide	$Be(OH)_2$	6.92×10^{-22}
Bismuth arsenate	$BiAsO_4$	4.43×10^{-10}
Bismuth iodide	BiI	7.71×10^{-19}
Cadmium arsenate	$Cd_3(AsO_4)_2$	2.2×10^{-33}
Cadmium carbonate	$CdCO_3$	1.0×10^{-12}
Cadmium fluoride	CdF_2	6.44×10^{-3}
Cadmium hydroxide	$Cd(OH)_2$	7.2×10^{-15}
Cadmium iodate	$Cd(IO_3)_2$	2.5×10^{-8}
Cadmium oxalate trihydrate	$CdC_2O_4\times3H_2O$	1.42×10^{-8}
Cadmium phosphate	$Cd_3(PO_4)_2$	2.53×10^{-33}
Cadmium sulfide	CdS	1×10^{-27}
Caesium perchlorate	$CsClO_4$	3.95×10^{-3}
Caesium periodate	$CsIO_4$	5.16×10^{-6}
Calcium carbonate (calcite)	$CaCO_3$	3.36×10^{-9}
Calcium carbonate (aragonite)	$CaCO_3$	6.0×10^{-9}

Calcium fluoride	CaF_2	3.45×10^{-11}
Calcium hydroxide	$Ca(OH)_2$	5.02×10^{-6}
Calcium iodate	$Ca(IO_3)_2$	6.47×10^{-6}
Calcium iodate hexahydrate	$Ca(IO_3)_2\times6H_2O$	7.10×10^{-7}
Calcium molybdate	CaMoO	1.46×10^{-8}
Calcium oxalate monohydrate	$CaC_2O_4\times H_2O$	2.32×10^{-9}
Calcium phosphate	$Ca_3(PO_4)_2$	2.07×10^{-33}
Calcium sulfate	$CaSO_4$	4.93×10^{-5}
Calcium sulfate dihydrate	$CaSO_4\times2H_2O$	3.14×10^{-5}
Calcium sulfate hemihydrate	$CaSO_4\times0.5H_2O$	3.1×10^{-7}
Cobalt(II) arsenate	$Co_3(AsO_4)_2$	6.80×10^{-29}
Cobalt(II) carbonate	$CoCO_3$	1.0×10^{-10}
Cobalt(II) hydroxide (blue)	$Co(OH)_2$	5.92×10^{-15}
Cobalt(II) iodate dihydrate	$Co(IO_3)_2\times2H_2O$	1.21×10^{-2}
Cobalt(II) phosphate	$Co_3(PO_4)_2$	2.05×10^{-35}
Cobalt(II) sulfide (alpha)	CoS	5×10^{-22}
Cobalt(II) sulfide (beta)	CoS	3×10^{-26}
Copper(I) bromide	CuBr	6.27×10^{-9}
Copper(I) chloride	CuCl	1.72×10^{-7}
Copper(I) cyanide	CuCN	3.47×10^{-20}
Copper(I) hydroxide *	Cu_2O	2×10^{-15}
Copper(I) iodide	CuI	1.27×10^{-12}
Copper(I) thiocyanate	CuSCN	1.77×10^{-13}
Copper(II) arsenate	$Cu_3(AsO_4)_2$	7.95×10^{-36}
Copper(II) hydroxide	$Cu(OH)_2$	4.8×10^{-20}
Copper(II) iodate monohydrate	$Cu(IO_3)_2\times H_2O$	6.94×10^{-8}
Copper(II) oxalate	CuC_2O_4	4.43×10^{-10}
Copper(II) phosphate	$Cu_3(PO_4)_2$	1.40×10^{-37}
Copper(II) sulfide	CuS	8×10^{-37}
Europium(III) hydroxide	$Eu(OH)_3$	9.38×10^{-27}
Gallium(III) hydroxide	$Ga(OH)_3$	7.28×10^{-36}
Iron(II) carbonate	$FeCO_3$	3.13×10^{-11}
Iron(II) fluoride	FeF_2	2.36×10^{-6}
Iron(II) hydroxide	$Fe(OH)_2$	4.87×10^{-17}

Iron(II) sulfide	FeS	8×10^{-19}
Iron(III) hydroxide	$Fe(OH)_3$	2.79×10^{-39}
Iron(III) phosphate dihydrate	$FePO_4\times2H_2O$	9.91×10^{-16}
Lanthanum iodate	$La(IO_3)_3$	7.50×10^{-12}
Lead(II) bromide	$PbBr_2$	6.60×10^{-6}
Lead(II) carbonate	$PbCO_3$	7.40×10^{-14}
Lead(II) chloride	$PbCl_2$	1.70×10^{-5}
Lead(II) chromate	$PbCrO_4$	3×10^{-13}
Lead(II) fluoride	PbF_2	3.3×10^{-8}
Lead(II) hydroxide	$Pb(OH)_2$	1.43×10^{-20}
Lead(II) iodate	$Pb(IO_3)_2$	3.69×10^{-13}
Lead(II) iodide	PbI_2	9.8×10^{-9}
Lead(II) oxalate	PbC_2O_4	8.5×10^{-9}
Lead(II) selenate	$PbSeO_4$	1.37×10^{-7}
Lead(II) sulfate	$PbSO_4$	2.53×10^{-8}
Lead(II) sulfide	PbS	3×10^{-28}
Lithium carbonate	Li_2CO_3	8.15×10^{-4}
Lithium fluoride	LiF	1.84×10^{-3}
Lithium phosphate	Li_3PO_4	2.37×10^{-4}
Magnesium ammonium phosphate	$MgNH_4PO_4$	3×10^{-13}
Magnesium carbonate	$MgCO_3$	6.82×10^{-6}
Magnesium carbonate trihydrate	$MgCO_3\times3H_2O$	2.38×10^{-6}
Magnesium carbonate pentahydrate	$MgCO_3\times5H_2O$	3.79×10^{-6}
Magnesium fluoride	MgF_2	5.16×10^{-11}
Magnesium hydroxide	$Mg(OH)_2$	5.61×10^{-12}
Magnesium oxalate dihydrate	$MgC_2O_4\times2H_2O$	4.83×10^{-6}
Magnesium phosphate	$Mg_3(PO_4)_2$	1.04×10^{-24}
Manganese(II) carbonate	$MnCO_3$	2.24×10^{-11}
Manganese(II) iodate	$Mn(IO_3)_2$	4.37×10^{-7}
Manganese(II) hydroxide	$Mn(OH)_2$	2×10^{-13}
Manganese(II) oxalate dihydrate	$MnC_2O_4\times2H_2O$	1.70×10^{-7}
Manganese(II) sulfide (pink)	MnS	3×10^{-11}
Manganese(II) sulfide (green)	MnS	3×10^{-14}
Mercury(I) bromide	Hg_2Br_2	6.40×10^{-23}

Mercury(I) carbonate	Hg_2CO_3	3.6×10^{-17}
Mercury(I) chloride	Hg_2Cl_2	1.43×10^{-18}
Mercury(I) fluoride	Hg_2F_2	3.10×10^{-6}
Mercury(I) iodide	Hg_2I_2	5.2×10^{-29}
Mercury(I) oxalate	$Hg_2C_2O_4$	1.75×10^{-13}
Mercury(I) sulfate	Hg_2SO_4	6.5×10^{-7}
Mercury(I) thiocyanate	$Hg_2(SCN)_2$	3.2×10^{-20}
Mercury(II) bromide	$HgBr_2$	6.2×10^{-20}
Mercury(II) hydroxide **	HgO	3.6×10^{-26}
Mercury(II) iodide	HgI_2	2.9×10^{-29}
Mercury(II) sulfide (black)	HgS	2×10^{-53}
Mercury(II) sulfide (red)	HgS	2×10^{-54}
Neodymium carbonate	$Nd_2(CO_3)_3$	1.08×10^{-33}
Nickel(II) carbonate	$NiCO_3$	1.42×10^{-7}
Nickel(II) hydroxide	$Ni(OH)_2$	5.48×10^{-16}
Nickel(II) iodate	$Ni(IO_3)_2$	4.71×10^{-5}
Nickel(II) phosphate	$Ni_3(PO_4)_2$	4.74×10^{-32}
Nickel(II) sulfide (alpha)	NiS	4×10^{-20}
Nickel(II) sulfide (beta)	NiS	1.3×10^{-25}
Palladium(II) thiocyanate	$Pd(SCN)_2$	4.39×10^{-23}
Potassium hexachloroplatinate	K_2PtCl_6	7.48×10^{-6}
Potassium perchlorate	$KClO_4$	1.05×10^{-2}
Potassium periodate	KIO_4	3.71×10^{-4}
Praseodymium hydroxide	$Pr(OH)_3$	3.39×10^{-24}
Radium iodate	$Ra(IO_3)_2$	1.16×10^{-9}
Radium sulfate	$RaSO_4$	3.66×10^{-11}
Rubidium perchlorate	$RuClO_4$	3.00×10^{-3}
Scandium fluoride	ScF_3	5.81×10^{-24}
Scandium hydroxide	$Sc(OH)_3$	2.22×10^{-31}
Silver(I) acetate	$AgCH_3COO$	1.94×10^{-3}
Silver(I) arsenate	Ag_3AsO_4	1.03×10^{-22}
Silver(I) bromate	$AgBrO_3$	5.38×10^{-5}
Silver(I) bromide	$AgBr$	5.35×10^{-13}
Silver(I) carbonate	Ag_2CO_3	8.46×10^{-12}

Silver(I) chloride	$AgCl$	1.77×10^{-10}
Silver(I) chromate	Ag_2CrO_4	1.12×10^{-12}
Silver(I) cyanide	$AgCN$	5.97×10^{-17}
Silver(I) iodate	$AgIO_3$	3.17×10^{-8}
Silver(I) iodide	AgI	8.52×10^{-17}
Silver(I) oxalate	$Ag_2C_2O_4$	5.40×10^{-12}
Silver(I) phosphate	Ag_3PO_4	8.89×10^{-17}
Silver(I) sulfate	Ag_2SO_4	1.20×10^{-5}
Silver(I) sulfite	Ag_2SO_3	1.50×10^{-14}
Silver(I) sulfide	Ag_2S	8×10^{-51}
Silver(I) thiocyanate	$AgSCN$	1.03×10^{-12}
Strontium arsenate	$Sr_3(AsO_4)_2$	4.29×10^{-19}
Strontium carbonate	$SrCO_3$	5.60×10^{-10}
Strontium fluoride	SrF_2	4.33×10^{-9}
Strontium iodate	$Sr(IO_3)_2$	1.14×10^{-7}
Strontium iodate monohydrate	$Sr(IO_3)_2\times H_2O$	3.77×10^{-7}
Strontium iodate hexahydrate	$Sr(IO_3)_2\times 6H_2O$	4.55×10^{-7}
Strontium oxalate	SrC_2O_4	5×10^{-8}
Strontium sulfate	$SrSO_4$	3.44×10^{-7}
Thallium(I) bromate	$TlBrO_3$	1.10×10^{-4}
Thallium(I) bromide	$TlBr$	3.71×10^{-6}
Thallium(I) chloride	$TlCl$	1.86×10^{-4}
Thallium(I) chromate	Tl_2CrO_4	8.67×10^{-13}
Thallium(I) hydroxide	$Tl(OH)_3$	1.68×10^{-44}
Thallium(I) iodate	$TlIO_3$	3.12×10^{-6}
Thallium(I) iodide	TlI	5.54×10^{-8}
Thallium(I) thiocyanate	$TlSCN$	1.57×10^{-4}
Thallium(I) sulfide	Tl_2S	6×10^{-22}
Tin(II) hydroxide	$Sn(OH)_2$	5.45×10^{-27}
Yttrium carbonate	$Y_2(CO_3)_3$	1.03×10^{-31}
Yttrium fluoride	YF_3	8.62×10^{-21}
Yttrium hydroxide	$Y(OH)_3$	1.00×10^{-22}
Yttrium iodate	$Y(IO_3)_3$	1.12×10^{-10}
Zinc arsenate	$Zn_3(AsO_4)_2$	2.8×10^{-28}

Zinc carbonate	$ZnCO_3$	1.46×10^{-10}
Zinc carbonate monohydrate	$ZnCO_3\times H_2O$	5.42×10^{-11}
Zinc fluoride	ZnF	3.04×10^{-2}
Zinc hydroxide	$Zn(OH)_2$	3×10^{-17}
Zinc iodate dihydrate	$Zn(IO_3)_2\times2H_2O$	4.1×10^{-6}
Zinc oxalate dihydrate	$ZnC_2O_4\times2H_2O$	1.38×10^{-9}
Zinc selenide	$ZnSe$	3.6×10^{-26}
Zinc selenite monohydrate	$ZnSe\times H_2O$	1.59×10^{-7}
Zinc sulfide (alpha)	ZnS	2×10^{-25}
Zinc sulfide (beta)	ZnS	3×10^{-23}