

## SOLUBILITY PRODUCT EQUILIBRIUM CONSTANTS

## CHEMISTRY BC2001x

Salt	formula	$K_{sp}$	$pK_{sp}$
Aluminum hydroxide	$Al(OH)_3$	$1.9 \times 10^{-33}$	32.74
Aluminum phosphate	$AlPO_4$	$1.3 \times 10^{-20}$	10.89
Barium carbonate	$BaCO_3$	$8.1 \times 10^{-9}$	8.09
Barium fluoride	$BaF_2$	$1.7 \times 10^{-6}$	5.77
Barium sulfate	$BaSO_4$	$1.1 \times 10^{-10}$	9.96
Barium sulfite	$BaSO_3$	$8.0 \times 10^{-7}$	6.10
Cadmium hydroxide	$Cd(OH)_2$	$1.2 \times 10^{-14}$	13.92
Calcium carbonate	$CaCO_3$	$4.8 \times 10^{-9}$	8.32
Calcium fluoride	$CaF_2$	$3.9 \times 10^{-11}$	10.41
Calcium hydroxide	$Ca(OH)_2$	$7.9 \times 10^{-6}$	5.10
Chromium (III) hydroxide	$Cr(OH)_3$	$7 \times 10^{-31}$	30.2
Cobalt (III) hydroxide	$Co(OH)_3$	$4 \times 10^{-45}$	44.4
Copper (I) chloride	$CuCl$	$2 \times 10^{-7}$	6.7
Copper (II) hydroxide	$Cu(OH)_2$	$2 \times 10^{-19}$	18.7
Copper (II) sulfide	$CuS$	$8.7 \times 10^{-36}$	35.06
Iron (II) hydroxide	$Fe(OH)_2$	$8. \times 10^{-15}$	14.1
Iron (III) hydroxide	$Fe(OH)_3$	$6.3 \times 10^{-38}$	37.20
Lanthanum (III) hydroxide	$La(OH)_3$	$1 \times 10^{-19}$	19.0
Lead bromide	$PbBr_2$	$6.3 \times 10^{-6}$	5.20
Lead carbonate	$PbCO_3$	$1.5 \times 10^{-13}$	12.82
Lead chloride	$PbCl_2$	$1.6 \times 10^{-5}$	4.80
Lead hydroxide	$Pb(OH)_2$	$2.8 \times 10^{-16}$	15.55
Lead iodate	$Pb(IO_3)_2$	$2.6 \times 10^{-13}$	12.59
Lead sulfate	$PbSO_4$	$1.8 \times 10^{-8}$	7.74
Lead sulfide	$PbS$	$8.0 \times 10^{-28}$	27.10
Magnesium fluoride	$MgF_2$	$6.4 \times 10^{-9}$	8.19
Magnesium hydroxide	$Mg(OH)_2$	$4.5 \times 10^{-14}$	13.35
Mercury(I) bromide	$Hg_2Br_2$	$1.3 \times 10^{-22}$	21.89
Mercury(I) sulfate	$Hg_2SO_4$	$6.8 \times 10^{-7}$	6.17
Nickel hydroxide	$Ni(OH)_2$	$2.0 \times 10^{-15}$	14.70
Silver chloride	$AgCl$	$1.8 \times 10^{-10}$	9.74
Silver carbonate	$Ag_2CO_3$	$8.2 \times 10^{-12}$	11.08
Silver chromate	$Ag_2CrO_4$	$9 \times 10^{-12}$	11.04
Silver cyanide	$AgCN$	$1.2 \times 10^{-16}$	15.92
Silver sulfate	$Ag_2SO_4$	$1.7 \times 10^{-5}$	4.77
Silver sulfide	$Ag_2S$	$7.0 \times 10^{-50}$	49.15
Zinc carbonate	$ZnCO_3$	$2.0 \times 10^{-11}$	10.70
Zinc sulfide	$ZnS$	$1.1 \times 10^{-21}$	20.96