

TABLE 18-3 Solubility-Product Constants, K_{sp} , at 25°C

Salt	Ion product	K_{sp}	Salt	Ion product	K_{sp}
AgCH ₃ COO	[Ag ⁺][CH ₃ COO ⁻]	1.9 × 10 ⁻³	CuCl	[Cu ⁺][Cl ⁻]	1.2 × 10 ⁻⁶
AgBr	[Ag ⁺][Br ⁻]	5.0 × 10 ⁻¹³	CuS	[Cu ²⁺][S ²⁻]	6.3 × 10 ⁻³⁶
Ag ₂ CO ₃	[Ag ⁺] ² [CO ₃ ²⁻]	8.1 × 10 ⁻¹²	FeS	[Fe ²⁺][S ²⁻]	6.3 × 10 ⁻¹⁸
AgCl	[Ag ⁺][Cl ⁻]	1.8 × 10 ⁻¹⁰	Fe(OH) ₂	[Fe ²⁺][OH ⁻] ²	8.0 × 10 ⁻¹⁶
AgI	[Ag ⁺][I ⁻]	8.3 × 10 ⁻¹⁷	Fe(OH) ₃	[Fe ³⁺][OH ⁻] ³	4 × 10 ⁻³⁸
Ag ₂ S	[Ag ⁺] ² [S ²⁻]	6.3 × 10 ⁻⁵⁰	HgS	[Hg ²⁺][S ²⁻]	1.6 × 10 ⁻⁵²
Al(OH) ₃	[Al ³⁺][OH ⁻] ³	1.3 × 10 ⁻³³	MgCO ₃	[Mg ²⁺][CO ₃ ²⁻]	3.5 × 10 ⁻⁸
BaCO ₃	[Ba ²⁺][CO ₃ ²⁻]	5.1 × 10 ⁻⁹	Mg(OH) ₂	[Mg ²⁺][OH ⁻] ²	1.8 × 10 ⁻¹¹
BaSO ₄	[Ba ²⁺][SO ₄ ²⁻]	1.1 × 10 ⁻¹⁰	MnS	[Mn ²⁺][S ²⁻]	2.5 × 10 ⁻¹³
CdS	[Cd ²⁺][S ²⁻]	8.0 × 10 ⁻²⁷	PbCl ₂	[Pb ²⁺][Cl ⁻] ²	1.6 × 10 ⁻⁵
CaCO ₃	[Ca ²⁺][CO ₃ ²⁻]	2.8 × 10 ⁻⁹	PbCrO ₄	[Pb ²⁺][CrO ₄ ²⁻]	2.8 × 10 ⁻¹³
CaF ₂	[Ca ²⁺][F ⁻] ²	5.3 × 10 ⁻⁹	PbSO ₄	[Pb ²⁺][SO ₄ ²⁻]	1.6 × 10 ⁻⁸
Ca(OH) ₂	[Ca ²⁺][OH ⁻] ²	5.5 × 10 ⁻⁶	PbS	[Pb ²⁺][S ²⁻]	8.0 × 10 ⁻²⁸
CaSO ₄	[Ca ²⁺][SO ₄ ²⁻]	9.1 × 10 ⁻⁶	SnS	[Sn ²⁺][S ²⁻]	1.0 × 10 ⁻²⁵
CoCO ₃	[Co ²⁺][CO ₃ ²⁻]	1.4 × 10 ⁻¹³	SrSO ₄	[Sr ²⁺][SO ₄ ²⁻]	3.2 × 10 ⁻⁷
CoS	[Co ²⁺][S ²⁻]	4.0 × 10 ⁻²¹	ZnS	[Zn ²⁺][S ²⁻]	1.6 × 10 ⁻²⁴