

## 9-6. Solubility Products of Sparingly Soluble Salts (at zero ionic strength)

Material	Chemical Formula	Temp' (°C)	Solubility Product
Aluminum Hydroxide	Al(OH) <sub>3</sub>	20	$1.9 \times 10^{-33}$
Barium Carbonate	BaCO <sub>3</sub>	16	$7 \times 10^{-9}$
Barium Sulfate	BaSO <sub>4</sub>	25	$1.08 \times 10^{-10}$
Calcium Carbonate	CaCO <sub>3</sub>	25	$8.7 \times 10^{-9}$
Calcium Fluoride	CaF <sub>2</sub>	26	$3.95 \times 10^{-11}$
Calcium Sulfate	CaSO <sub>4</sub>	10	$6.1 \times 10^{-5}$
Cupric Sulfide	CuS	18	$8.5 \times 10^{-45}$
Ferric Hydroxide	Fe(OH) <sub>3</sub>	18	$1.1 \times 10^{-36}$
Ferrous Hydroxide	Fe(OH) <sub>2</sub>	18	$1.64 \times 10^{-14}$
Lead Carbonate	PbCO <sub>3</sub>	18	$3.3 \times 10^{-14}$
Lead Fluoride	PbF <sub>2</sub>	18	$3.2 \times 10^{-5}$
Lead Sulfate	PbSO <sub>4</sub>	18	$1.06 \times 10^{-8}$
Magnesium Ammonium Phosphate	MgNH <sub>4</sub> PO <sub>4</sub>	25	$2.5 \times 10^{-13}$
Magnesium Carbonate	MgCO <sub>3</sub>	12	$2.6 \times 10^{-5}$
Magnesium Hydroxide	Mg(OH) <sub>2</sub>	18	$1.2 \times 10^{-11}$
Manganese Hydroxide	Mn(OH) <sub>2</sub>	18	$4 \times 10^{-14}$
Nickel Sulfide	NiS	18	$1.4 \times 10^{-24}$
Strontium Carbonate	SrCO <sub>3</sub>	25	$1.6 \times 10^{-9}$
Strontium Sulfate	SrSO <sub>4</sub>	17.4	$2.81 \times 10^{-7}$
Zinc Hydroxide	Zn(OH) <sub>2</sub>	20	$1.8 \times 10^{-14}$