| Solubility product constants @ 25˚C | | | |
|---|---|---|---|
| Compound | Ksp | Compound | Ksp |
| AgCl | 1.6E-10 | $Fe(OH)_2$ | 8E-16 |
| AgBr | 5E-13 | $Hg_2Br_2$ | 6E-23 |
| $AgC_2H_3O_2$ | 1.8E-3 | $Hg_2Cl_2$ | 1.4E-18 |
| $Ag_2C_2O_4$ | 5E-12 | $Hg_2SO_4$ | 7E-7 |
| $Ag_2CrO_4$ | 1.12E-12 | $Hg_2CO_3$ | 1.1E-3 |
| AgI | 9E-17 | $MgF_2$ | 3.7E-8 |
| AgSCN | 1.0E-12 | $Mn(OH)_2$ | 1.7E-13 |
| $Ag_2SO_4$ | 1.0E-5 | $Mg(OH)_2$ | 1.8E-11 |
| $BaCrO_4$ | 8 E-11 | $NiCO_3$ | 1.2E-7 |
| $BaSO_4$ | 1.1E-10 | $PbBr_2$ | 1.2E-5 |
| $CaCO_3$ | 5 E-9 | $PbCl_2$ | 1.5E-5 |
| $CaF_2$ | 1.4E-10 | $PbCO_3$ | 1.2E-13 |
| $Ca(OH)_2$ | 5E-6 | $PbI_2$ | $8.49 \times 10^{-9}$ |
| $CaSO_4$ | 7E-5 | $PbSO_4$ | 6.3E-7 |
| | | $SrSO_4$ | 3E-7 |
| | | $SrF_2$ | 4E-9 |

| Acid and base equilibrium constants | | | |
|---|---|---|---|
| Compound | Chemical formula | Equation | Ka |
| **Inorganic acids** | | | |
| Chlorous acid | $HClO_2$ | $HClO_2 + H_2O \rightarrow ClO_2^- + H_3O^+$ | 1.1E-2 |
| Nitrous acid | $HNO_2$ | $HNO_2 + H_2O \rightarrow NO_2^- + H_3O^+$ | 7.2E-4 |
| Hydroflouric acid | HF | $HF + H_2O \rightarrow F- + H_3O^+$ | 6.6E-4 |
| Hypochlorous acid | HOCl | $HOCl + H_2O \rightarrow OCl^- + H_3O^+$ | 2.9E-8 |
| Hypobromous acid | HBrO | $HBrO + H_2O \rightarrow BrO^- + H_3O^+$ | 2.5E-9 |
| Hydrocyanic acid | HCN | $HCN + H_2O \rightarrow CN^- + H_3O^+$ | 6.2E-10 |
| | | | |
| **Carboxilic acids** | | | |
| Chloroacetic acid | $CH_2ClCOOH$ | $CH_2ClCOOH + H_2O \rightarrow CH_2ClCOOH + H_3O^+$ | 1.4E-3 |
| Formic acid | HCOOH | $HCOOH + H_2O \rightarrow HCOOH + H_3O^+$ | 1.8E-4 |
| Benzoic acid | $C_6H_5COOH$ | $C_6H_5COOH + H_2O \rightarrow C_6H_5COOH + H_3O^+$ | 6.3E-5 |
| Acetic acid | $CH_3COOH$ | $CH_3COOH + H_2O \rightarrow CH_3COOH + H_3O^+$ | 9.1E-5 |
| | | | |
| **Inorganic Bases** | | | Kb |
| Ammonia | $NH_3$ | $NH_3 + H_2O \rightarrow NH_3 + OH^-$ | 1.8E-5 |
| Hydrazine | $H_2NNH_2$ | $H_2NNH_2 + H_2O \rightarrow H_2NNH_2 + OH^-$ | 8.5E-7 |
| Hydroxylamine | $HONH_2$ | $HONH_2 + H_2O \rightarrow HONH_2 + OH^-$ | 9.1E-9 |
| | | | |
| **Amines** | | | |
| Dimethylamine | $(CH_3)_2NH$ | $(CH_3)_2NH + H_2O \rightarrow (CH_3)_2NH + OH^-$ | 5.9E-4 |
| Ethylamine | $CH_3CH_2NH_2$ | $CH_3CH_2NH_2 + H_2O \rightarrow CH_3CH_2NH_2 + OH^-$ | 4.3E-4 |
| Methylamine | $CH_3NH_2$ | $CH_3NH_2 + H_2O \rightarrow CH_3NH_2 + OH^-$ | 4.2E-4 |
| Pyridine | $C_5H_5N$ | $C_5H_5N + H_2O \rightarrow C_5H_5N + OH^-$ | 1.5E-9 |
| aniline | $C_6H_5NH_2$ | $C_6H_5NH_2 + H_2O \rightarrow C_6H_5NH_2 + OH^-$ | 7.4E-10 |