Soluble:

|  |  |
| --- | --- |
| Ions / Gases | Exceptions |
| Na+, K+, NH4+ |  |
| NO3-, CH3COO- (ethanoate), HCO3- |  |
| Cl-, Br-, I- | Ag+, Pb2+ compounds |
| SO42- | Group II, Ag+, Hg2+, Pb2+ compounds |
| HCl, NO3, SO2, SO3, F2, Cl2, Br2, CO2­, NH3 |  |

Insoluble:

|  |  |
| --- | --- |
| Ions / Gases | Exceptions |
| CO32-, SO32-, PO43- | Group I, NH4+ compounds |
| OH- | Group I, NH4+, Ca2+ (slightly soluble), Ba2+ compounds |
| O2- | Group I, II, NH4+ compounds |
| S2- | Group I, II, NH4+ compounds |
| H2, O2, N2, I2, CH4 |  |