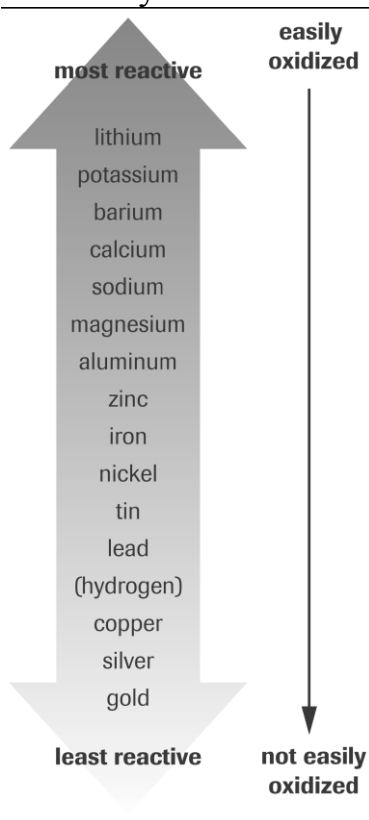


The Activity Series of Metals



General Solubility Guidelines

Guidelines	Cations	Anions	Results	Exceptions
1	Li^+ , Na^+ , K^+ , Rb^+ , Cs^+ , NH_4^+	NO_3^- , CH_3COO^- , ClO_3^-	Soluble	$\text{Ca}(\text{ClO}_3)_2$ is insoluble
2	Ag^+ , Pb^+ , Hg^+	CO_3^{2-} , PO_4^{3-} , O^{2-} , S^{2-} , OH^-	Insoluble	BaO and $\text{Ba}(\text{OH})_2$ are soluble. Group 2 sulfides tend to decompose.
3		Cl^- , Br^- , I^-	Soluble	
4	Ba^{2+} , Ca^{2+} , Sr^{2+}		Insoluble	
5	Mg^{2+} , Cu^{2+} , Zn^{2+} , Fe^{2+} , Fe^{3+} , Al^{3+}	SO_4^{2-}	Soluble	

Note H^+ is part of water; therefore it will always be soluble.