

Appendix C: Stability coefficients of metallic ionic hydroxy complex

Metallic ions	$\log K_1$	$\log \beta_2$	$\log \beta_3$	$\log \beta_4$	pK_{sp}
Mg ²⁺	2.58	1.0			11.15
Ca ²⁺	1.4	2.77			5.22
Ba ²⁺	0.6				3.6
Mn ²⁺	3.4	5.8	7.2	7.3	12.6
Fe ²⁺	4.5	7.4	10.0	9.6	15.1
Co ²⁺	4.3	8.4	9.7	10.2	14.9
Ni ²⁺	4.1	8.0	11.0		15.2
Cu ²⁺	6.3	12.8	14.5	16.4	19.32
Zn ²⁺	5.0	11.1	13.6	14.8	15.52–16.46
Pb ²⁺	6.3	10.9	13.9		15.1–15.3
Cr ³⁺	9.99	11.88		29.87	30.27
Al ³⁺	9.01	18.7	27.0	33.0	33.5
Fe ³⁺	11.81	22.3	32.05	34.3	38.8
Ce ³⁺	5.9	11.7	16.0	18.0	21.9
Zr ⁴⁺	14.32	28.26	41.41	55.27	57.2
La ³⁺	5.5	10.8	12.1	19.1	22.3
Ti ⁴⁺	14.15	27.88	41.27	54.33	58.3