

## Appendix B: Proton addition constants of some flotation reagents

Reagents	Proton addition constants		Reagents	Proton addition constants		
	$\log K_1^H$	$\log K_2^H$		$\log K_1^H$	$\log K_2^H$	$\log K_3^H$
H <sub>2</sub> S	13.9	7.02	H <sub>2</sub> WO <sub>4</sub>	3.5	4.7	
H <sub>2</sub> CO <sub>3</sub>	10.33	6.35	H <sub>2</sub> CrO <sub>4</sub>	6.49	6.73	
H <sub>2</sub> SiO <sub>3</sub>	13.1	9.86	Citric acid	6.396	4.761	3.13
C <sub>2</sub> H <sub>2</sub> O <sub>4</sub>	4.27	1.25	Phosphoric acid	12.35	7.199	2.15
Tartaric acid	4.37	3.93	Tolyl arsonic acid	2.68	3.70	
Succinic acid	5.64	4.21				
Malic acid	5.097	3.46				
8-Hydroxy quinoline	9.90	5.01				