

附錄 鹼之解離常數 (25°C)

鹼解離常數 Base dissociation constants

鹼 Base	解離反應 Dissociation reaction	K_b	pK_b
Ammonia	$\text{NH}_3 + \text{H}_2\text{O} \rightleftharpoons \text{NH}_4^+ + \text{OH}^-$	1.8×10^{-5}	4.76
Aniline	$\text{C}_6\text{H}_5\text{NH}_2 + \text{H}_2\text{O} \rightleftharpoons \text{C}_6\text{H}_5\text{NH}_3^+ + \text{OH}^-$	4.0×10^{-10}	9.40
Butylamine	$\text{CH}_3(\text{CH}_2)_3\text{NH}_2 + \text{H}_2\text{O} \rightleftharpoons \text{CH}_3(\text{CH}_2)_3\text{NH}_3^+ + \text{OH}^-$	4.0×10^{-4}	3.40
Dimethylamine	$(\text{CH}_3)_2\text{NH} + \text{H}_2\text{O} \rightleftharpoons (\text{CH}_3)_2\text{NH}_2^+ + \text{OH}^-$	5.9×10^{-4}	3.23
Ethanolamine	$\text{HOCH}_2\text{CH}_2\text{NH}_2 + \text{H}_2\text{O} \rightleftharpoons \text{HOCH}_2\text{CH}_2\text{NH}_3^+ + \text{OH}^-$	3.3×10^{-5}	4.50
Ethylamine	$\text{CH}_3\text{CH}_2\text{NH}_2 + \text{H}_2\text{O} \rightleftharpoons \text{CH}_3\text{CH}_2\text{NH}_3^+ + \text{OH}^-$	4.4×10^{-4}	3.37
Hydrazine	$\text{H}_2\text{NNH}_2 + \text{H}_2\text{O} \rightleftharpoons \text{H}_2\text{NNH}_3^+ + \text{OH}^-$	1.2×10^{-6}	5.89
Hydroxylamine	$\text{HONH}_2 + \text{H}_2\text{O} \rightleftharpoons \text{HONH}_3^+ + \text{OH}^-$	1.1×10^{-8}	7.97
Methylamine	$\text{CH}_3\text{NH}_2 + \text{H}_2\text{O} \rightleftharpoons \text{CH}_3\text{NH}_3^+ + \text{OH}^-$	4.8×10^{-4}	3.32
Pyridine	$\text{C}_5\text{H}_5\text{NH} + \text{H}_2\text{O} \rightleftharpoons \text{C}_5\text{H}_5\text{NH}_2^+ + \text{OH}^-$	1.7×10^{-9}	8.77
Trimethylamine	$(\text{CH}_3)_3\text{N} + \text{H}_2\text{O} \rightleftharpoons (\text{CH}_3)_3\text{NH}^+ + \text{OH}^-$	6.3×10^{-5}	4.20
Urea	$\text{H}_2\text{NCONH}_2 + \text{H}_2\text{O} \rightleftharpoons \text{H}_2\text{NCONH}_3^+ + \text{OH}^-$	1.5×10^{-14}	13.82

錄自：Bodner, G. M.; Pardue, H. L. *Chemistry-An Experimental Science*; 2nd ed.,
John Wiley & Sons, Inc.: New York, 1995.