

Acid Dissociation Constants at 25°C

Acid	Formula	K_1	K_2	K_3
Acetic acid	CH ₃ COOH	1.75×10^{-5}		
Ammonium ion	NH ₄ ⁺	5.70×10^{-10}		
Anilinium ion	C ₆ H ₅ NH ₃ ⁺	2.51×10^{-5}		
Arsenic acid	H ₃ AsO ₄	5.8×10^{-3}	1.1×10^{-7}	3.2×10^{-12}
Arsenous acid	H ₃ AsO ₃	5.1×10^{-10}		
Benzoic acid	C ₆ H ₅ COOH	6.28×10^{-5}		
Boric acid	H ₃ BO ₃	5.81×10^{-10}		
1-Butanoic acid	CH ₃ CH ₂ CH ₂ COOH	1.52×10^{-5}		
Carbonic acid	H ₂ CO ₃	4.45×10^{-7}	4.69×10^{-11}	
	CO ₂ (aq)	4.2×10^{-7}	4.69×10^{-11}	
Chloroacetic acid	ClCH ₂ COOH	1.36×10^{-3}		
Citric acid	HOOC(OH)C(CH ₂ COOH) ₂	7.45×10^{-4}	1.73×10^{-5}	4.02×10^{-7}
Dimethyl ammonium ion	(CH ₃) ₂ NH ₂ ⁺	1.68×10^{-11}		
Ethanol ammonium ion	HOC ₂ H ₄ NH ₃ ⁺	3.18×10^{-10}		
Ethyl ammonium ion	C ₂ H ₅ NH ₃ ⁺	2.31×10^{-11}		
Ethylene diammonium ion	⁺ H ₃ NCH ₂ CH ₂ NH ₃ ⁺	1.42×10^{-7}	1.18×10^{-10}	
Formic acid	HCOOH	1.80×10^{-4}		
Fumaric acid	<i>trans</i> -HOOCCH:CHCOOH	8.85×10^{-4}	3.21×10^{-5}	
Glycolic acid	HOCH ₂ COOH	1.47×10^{-4}		
Hydrazinium ion	H ₂ NNH ₃ ⁺	1.05×10^{-8}		
Hydrazoic acid	HN ₃	2.2×10^{-5}		
Hydrogen cyanide	HCN	6.2×10^{-10}		
Hydrogen fluoride	HF	6.8×10^{-4}		
Hydrogen peroxide	H ₂ O ₂	2.2×10^{-12}		
Hydrogen sulfide	H ₂ S	9.6×10^{-8}	1.3×10^{-14}	
Hydroxyl ammonium ion	HONH ₃ ⁺	1.10×10^{-6}		
Hypochlorous acid	HOCl	3.0×10^{-8}		
Iodic acid	HIO ₃	1.7×10^{-1}		
Lactic acid	CH ₃ CHOHCOOH	1.38×10^{-4}		
Maleic acid	<i>cis</i> -HOOCCH:CHCOOH	1.3×10^{-2}	5.9×10^{-7}	
Malic acid	HOOCCHOHCH ₂ COOH	3.48×10^{-4}	8.00×10^{-6}	
Malonic acid	HOOCCH ₂ COOH	1.42×10^{-3}	2.01×10^{-6}	
Mandelic acid	C ₆ H ₅ CHOHCOOH	4.0×10^{-4}		
Methyl ammonium ion	CH ₃ NH ₃ ⁺	2.3×10^{-11}		
Nitrous acid	HNO ₂	7.1×10^{-4}		
Oxalic acid	HOOC ₂ COOH	5.60×10^{-2}	5.42×10^{-5}	
Periodic acid	H ₅ IO ₆	2×10^{-2}	5×10^{-9}	
Phenol	C ₆ H ₅ OH	1.00×10^{-10}		
Phosphoric acid	H ₃ PO ₄	7.11×10^{-3}	6.32×10^{-8}	4.5×10^{-13}
Phosphorous acid	H ₃ PO ₃	3×10^{-2}	1.62×10^{-7}	
<i>o</i> -Phthalic acid	C ₆ H ₄ (COOH) ₂	1.12×10^{-3}	3.91×10^{-6}	
Picric acid	(NO ₂) ₃ C ₆ H ₂ OH	4.3×10^{-1}		
Piperidinium ion	C ₅ H ₁₁ NH ⁺	7.50×10^{-12}		
Propanoic acid	CH ₃ CH ₂ COOH	1.34×10^{-5}		

continues

Acid	Formula	K_1	K_2	K_3
Pyridinium ion	C ₅ H ₅ NH ⁺	5.90×10^{-6}		
Pyruvic acid	CH ₃ COCOOH	3.2×10^{-3}		
Salicylic acid	C ₆ H ₄ (OH)COOH	1.06×10^{-3}		
Succinic acid	HOOCCH ₂ CH ₂ COOH	6.21×10^{-5}	2.31×10^{-6}	
Sulfamic acid	H ₂ NSO ₃ H	1.03×10^{-1}		
Sulfuric acid	H ₂ SO ₄	Strong	1.02×10^{-2}	
Sulfurous acid	H ₂ SO ₃	1.23×10^{-2}	6.6×10^{-8}	
Tartaric acid	HOOC(CHOH) ₂ COOH	9.20×10^{-4}	4.31×10^{-5}	
Thiocyanic acid	HSCN	0.13		
Thiosulfuric acid	H ₂ S ₂ O ₃	0.3	2.5×10^{-2}	
Trichloroacetic acid	Cl ₃ CCOOH	3		
Trimethyl ammonium ion	(CH ₃) ₃ NH ⁺	1.58×10^{-10}		