Acid Dissociation Constants in Water at 25 °C

Name	Acid	Conjugate Base	Ka	p <i>K</i> a
Hydroiodic	HI	I-	~10 ¹¹	~-11
Hydrobromic	HBr	Br ⁻	~10 ⁹	~-9
Perchloric	HCIO ₄	ClO ₄ -	~10 ⁷	~-7
Hydrochloric	HCI	Cl-	~10 ⁷	~-7
Chloric	HClO ₃	ClO ₃ -	~10 ³	~-3
Sulfuric (1)	H_2SO_4	HSO ₄ -	~10 ²	~-2
Nitric	HNO ₃	NO_3^-	~20	~-1.3
Hydronium ion	H₃O ⁺	H ₂ O	1	0.0
Urea acidium ion	NH ₂ CONH ₃ +	(NH ₂) ₂ CO (urea)	6.6×10^{-1}	0.18
Iodic	HIO ₃	IO ₃ -	1.6 x10 ⁻¹	0.80
Oxalic (1)	$H_2C_2O_4$	$HC_2O_4^-$	5.9×10^{-2}	1.23
Sulfurous (1)	H_2SO_3	HSO₃ ⁻	1.54 x 10 ⁻²	1.81
Sulfuric (2)	HSO ₄ -	SO ₄ ²⁻	1.2×10^{-2}	1.92
Chlorous	HCIO ₂	ClO ₂ -	1.1×10^{-2}	1.96
Phosphoric (1)	H ₃ PO ₄	$H_2PO_4^-$	7.52×10^{-3}	2.12
Arsenic (1)	H ₃ AsO ₄	$H_2AsO_4^-$	5.0×10^{-3}	2.30
Chloroacetic acid	CH ₂ CICOOH	CH ₂ CICOO⁻	1.4×10^{-3}	2.85
Hydrofluoric acid	HF	F-	6.6×10^{-4}	3.18
Nitrous	HNO ₂	NO ₂ -	4.6×10^{-4}	3.34
Formic	HCOOH	HCOO-	1.77×10^{-4}	3.75
Benzoic	C ₆ H ₅ COOH	C ₆ H ₅ COO	6.46×10^{-5}	4.19
Oxalic (2)	HC ₂ O ₄ ⁻	$C_2O_4^{2-}$	6.4×10^{-5}	4.19
Hydrazoic	HN ₃	N_3^-	1.9×10^{-5}	4.72
Acetic	CH ₃ COOH	CH₃COO⁻	1.76×10^{-5}	4.75
Propionic	CH ₃ CH ₂ COOH	CH ₃ CH ₂ COO⁻	1.70×10^{-5} 1.34×10^{-5}	4.87
Pyridinium ion	HC ₅ H ₅ N ⁺	C ₅ H ₅ N	5.6×10^{-6}	5.25
Carbonic (1)	H ₂ CO ₃	HCO ₃ -	4.3×10^{-7}	6.37
Sulfurous (2)	HSO ₃ -	SO ₃ ²⁻	1.02×10^{-7}	6.91
	H ₂ AsO ₄ -	HAsO ₄ 2-	9.3×10^{-8}	7.03
Arsenic (2) Hydrosulfuric	H ₂ S	HS ⁻	9.1 x 10 ⁻⁸	7.03 7.04
Phosphoric (2)	H ₂ PO ₄ -	HPO ₄ 2-	6.23×10^{-8}	7.04
Hypochlorous	HCIO	CIO ⁻	3.0×10^{-8}	7.53
Hydrocyanic	HCN	CN-	6.17×10^{-10}	7.33 9.21
Ammonium ion	NH ₄ +	UN NH₃	5.6×10^{-10}	9.21
		CO ₃ ²⁻	4.8×10^{-11}	9.25 10.32
Carbonic (2)	HCO ₃ -			
Methylammonium ion	$CH_3NH_3^+$	CH₃NH₂ AsO₄³⁻	2.3×10^{-11}	10.64
Arsenic (3)	HASO ₄ 2-		3.0×10^{-12} 2.4×10^{-12}	11.53
Hydrogen peroxide	H ₂ O ₂	HO ₂ -		11.62
Phosphoric (3)	HPO ₄ ²⁻	PO ₄ 3-	2.2 x 10 ⁻¹³ 1.0 x 10⁻¹⁴	12.67
Water	H ₂ O	OH-		14.00
Methanol Ammonia	CH₃OH NH₃	CH₃O⁻ NH₂⁻	~10 ⁻¹⁸ ~10 ⁻³⁴	~18 ~34

^{*}Strong acid in Water, **Weak acids in Water, ***Not an acid in water