

Acid	Conjugate Base	K _a	pK _a	K _b	pK _b
HClO ₄ perchloric acid	ClO ₄ ⁻ perchlorate	Strong acid, 1.58 × 10 ¹⁵	-15.2	6.33 × 10 ⁻³⁰	29.2
HSO ₃ F fluorosulfuric acid	SO ₃ F ⁻ fluorosulfate	Strong acid	-10	1 × 10 ⁻²⁴	24
HI hydroiodic acid	I ⁻ iodide	Strong acid	-9.3	5 × 10 ⁻²⁴	23.3
HBr hydrobromic acid	Br ⁻ bromide	Strong acid	-9	1 × 10 ⁻²³	23
HCl hydrochloric acid	Cl ⁻ chloride	Strong acid	-5.9	1.25 × 10 ⁻²⁰	19.9
H ₂ SO ₄ sulfuric acid	HSO ₄ ⁻ hydrogen sulfate	Strong acid, 6.31 × 10 ²	-2.8	1.58 × 10 ⁻¹⁷	16.8
HNO ₃ nitric acid	NO ₃ ⁻ nitrate	Strong acid, 2.51 × 10 ¹	-1.4	3.98 × 10 ⁻¹⁶	15.4
H ₃ O ⁺ (aq) hydronium	H ₂ O water	Strong acid, 1 × 10 ¹	-1	1 × 10 ⁻¹⁵	15
HClO ₃ chloric acid	ClO ₃ ⁻ chlorate	Strong acid	-1	1 × 10 ⁻¹⁵	15
H ₂ C ₂ O ₄ oxalic acid	HC ₂ O ₄ ⁻ hydrogen oxalate	5.62 × 10 ⁻²	1.25	1.78 × 10 ⁻¹³	12.75
H ₄ P ₂ O ₇ pyrophosphoric acid	H ₃ P ₄ O ₇ ⁻	3.0 × 10 ⁻²	1.52	3.3 × 10 ⁻¹³	12.48
H ₂ CrO ₄ chromic acid	HCrO ₄ ⁻ chromate	2.51 × 10 ⁻²	1.6	3.98 × 10 ⁻¹³	12.4
H ₂ SO ₃ sulfurous acid	HSO ₃ ⁻ hydrogen sulfite	1.7 × 10 ⁻²	1.77	5.88 × 10 ⁻¹³	12.23
HF ₄ fluoroboric acid	BF ₄ ⁻ fluoroborate	1.58 × 10 ⁻²	1.8	6.31 × 10 ⁻¹³	12.2
HCr ₂ O ₇ ⁻ hydrogen dichromate	Cr ₂ O ₇ ²⁻ dichromate	1.58 × 10 ⁻²	1.8	6.31 × 10 ⁻¹³	12.2
HClO ₂ chlorous acid	ClO ₂ ⁻ chlorite	1.10 × 10 ⁻²	1.96	9.12 × 10 ⁻¹³	12.04
HSO ₄ ⁻ hydrogen sulfate	SO ₄ ²⁻ sulfate	1.02 × 10 ⁻²	1.99	9.77 × 10 ⁻¹³	12.01

HCrO ₄ ⁻ hydrogen chromate	CrO ₄ ²⁻ chromate	8.91 × 10 ⁻³	2.05	1.12 × 10 ⁻¹²	11.95
H ₃ PO ₄ phosphoric acid	H ₂ PO ₄ ⁻ dihydrogen phosphate	7.24 × 10 ⁻³	2.14	1.38 × 10 ⁻¹²	11.86
H ₃ AsO ₄ arsenic acid	H ₂ AsO ₄ ⁻ dihydrogen arsenate	6.5 × 10 ⁻³	2.19	1.6 × 10 ⁻¹²	11.81
H ₂ C ₃ H ₂ O ₄ malonic acid	HC ₃ H ₂ O ₄ ⁻ hydrogen malonate	1.5 × 10 ⁻³	2.82	6.7 × 10 ⁻¹²	11.18
HC ₂ H ₂ ClO ₂ monochloroacetic acid	C ₂ H ₂ ClO ₂ ⁻	1.35 × 10 ⁻³	2.87	7.41 × 10 ⁻¹²	11.13
H ₂ C ₄ H ₄ O ₆ tartaric acid	HC ₄ H ₄ O ₆ ⁻ hydrogen tartrate	1.0 × 10 ⁻³	3.0	1.0 × 10 ⁻¹¹	11.0
C ₆ H ₈ O ₇ citric acid	C ₆ H ₇ O ₇ ⁻ trihydrogen citrate	7.41 × 10 ⁻⁴	3.13	1.35 × 10 ⁻¹¹	10.87
HF hydrofluoric acid	F ⁻ fluoride	6.76 × 10 ⁻⁴	3.17	1.48 × 10 ⁻¹¹	10.83
HNO ₂ nitrous acid	NO ₂ ⁻ nitrite	3.16 × 10 ⁻⁴	3.15	1.41 × 10 ⁻¹¹	10.85
C ₉ H ₈ O ₄ acetylsalicylic acid	C ₉ H ₇ O ₄ ⁻ acetylsalicylate	3.0 × 10 ⁻⁴	3.52	3.33 × 10 ⁻¹¹	10.48
HCO ₂ H formic acid	CO ₂ H ⁻ formate	1.80 × 10 ⁻⁴	3.745	5.56 × 10 ⁻¹¹	10.255
C ₆ H ₈ O ₆ ascorbic acid	C ₆ H ₇ O ₆ ⁻ hydrogen ascorbate	8.0 × 10 ⁻⁵	4.10	1.25 × 10 ⁻¹⁰	9.90
HC ₂ O ₄ ⁻ hydrogen oxalate	C ₂ O ₄ ²⁻ oxalate	7.24 × 10 ⁻⁵	4.14	1.38 × 10 ⁻¹⁰	9.86
C ₆ H ₅ COOH benzoic acid	C ₆ H ₅ COO ⁻ benzoate	6.28 × 10 ⁻⁵	4.202	1.59 × 10 ⁻¹⁰	9.798
HC ₄ H ₄ O ₆ - hydrogen tartrate	C ₄ H ₄ O ₆ ²⁻ tartrate	4.6 × 10 ⁻⁵	4.34	2.17 × 10 ⁻¹⁰	9.66
C ₆ H ₅ NH ₂ aniline	C ₆ H ₅ NH ₃ ⁺	2.6 × 10 ⁻⁵	4.58	3.8 × 10 ⁻¹⁰	9.42
HN ₃ hydroazoic acid	N ₃ ⁻ azide	2.5 × 10 ⁻⁵	4.6	4.0 × 10 ⁻¹⁰	9.4
HC ₂ H ₃ O ₂ acetic acid	C ₂ H ₃ O ₂ ⁻ acetate	1.75 × 10 ⁻⁵	4.756	5.7 × 10 ⁻¹⁰	9.244
C ₆ H ₇ O ₇ ⁻ trihydrogen citrate	C ₆ H ₆ O ₇ ²⁻ dihydrogen citrate	1.74 × 10 ⁻⁵	4.76	5.75 × 10 ⁻¹⁰	9.24
Al(H ₂ O) ₆ ³⁺ hydrated aluminum ion		1.4 × 10 ⁻⁵	4.85	7.14 × 10 ⁻¹⁰	9.15
C ₆ H ₅ N pyridine	C ₆ H ₆ N ⁺	5.9 × 10 ⁻⁶	5.23	1.7 × 10 ⁻⁹	8.77
HC ₂ H ₃ O ₄ ⁻ hydrogen malonate	C ₂ H ₃ O ₄ ²⁻ malonate	2.0 × 10 ⁻⁶	5.7	5.0 × 10 ⁻⁹	8.3

H ₃ NO hydroxylamine	H ₃ NOH ⁺	9.1×10^{-7}	6.0	1.1×10^{-8}	8.0
H ₂ CO ₃ carbonic acid	HCO ₃ ⁻ hydrogen carbonate	4.46×10^{-7}	6.35	2.24×10^{-8}	7.65
C ₆ H ₆ O ₇ ²⁻ dihydrogen citrate	C ₆ H ₅ O ₇ ³⁻ hydrogen citrate	4.07×10^{-7}	6.39	2.45×10^{-8}	7.61
H ₂ AsO ₄ ⁻ dihydrogen arsenate	HAsO ₄ ²⁻ hydrogen arsenate	1.1×10^{-7}	6.94	8.7×10^{-8}	7.06
H ₂ O water	OH ⁻ hydroxide	1×10^{-7}	7.00	1×10^{-7}	7.00
H ₂ S hydrosulfuric acid	HS ⁻ hydrosulfide	1×10^{-7}	7.0	1×10^{-7}	7.0
HSO ₃ ⁻ hydrogen sulfite	SO ₃ ²⁻ sulfite	6.4×10^{-8}	7.19	1.56×10^{-7}	6.81
H ₂ PO ₄ ⁻ dihydrogen phosphate	HPO ₄ ²⁻ hydrogen phosphate	6.31×10^{-7}	7.20	1.58×10^{-7}	6.80
HClO hypochlorous acid	ClO ⁻ hypochlorite	2.95×10^{-8}	7.53	3.39×10^{-7}	6.47
HBrO hypobromous acid	BrO ⁻ hypobromite	2.24×10^{-9}	8.65	4.47×10^{-6}	5.35
H ₃ BO ₃ also B(OH) ₃ boric acid	B(OH) ₄ ⁻ tetrahydroxy borate	5.75×10^{-10}	9.24	1.74×10^{-5}	4.76
NH ₄ ⁺ ammonium	NH ₃ ammonia	5.62×10^{-10}	9.25	1.78×10^{-5}	4.75
HCN hydrocyanic acid	CN ⁻ cyanide	6.2×10^{-10}	9.21	1.61×10^{-5}	4.79
C ₆ H ₅ OH phenol	C ₆ H ₅ O ⁻ phenoxide	1.12×10^{-10}	9.95	8.91×10^{-5}	4.05
HIO hypoiodous acid	IO ⁻ hypoiodite	3.16×10^{-11}	10.5	3.16×10^{-4}	3.5
CH ₃ NH ₂ methylamine	CH ₃ NH ₃ ⁺	2.19×10^{-11}	10.66	4.57×10^{-4}	3.34
C ₂ H ₅ NH ₂ ethylamine	C ₂ H ₅ NH ₃ ⁺	1.79×10^{-11}	10.75	5.6×10^{-4}	3.25
HCO ₃ ⁻ hydrogen carbonate	CO ₃ ²⁻ carbonate	4.69×10^{-11}	10.33	2.13×10^{-4}	3.671
HAsO ₄ ²⁻ hydrogen arsenate	AsO ₄ ³⁻	3.2×10^{-12}	11.5	3.2×10^{-3}	2.5
H ₂ O ₂ hydrogen peroxide	HO ₂ ⁻	2.4×10^{-12}	11.62	4.2×10^{-3}	2.38
C ₆ H ₈ O ₆ - hydrogen ascorbate	C ₆ H ₇ O ₆ ²⁻ ascorbate	1.6×10^{-12}	11.8	6.3×10^{-3}	2.2
HPO ₄ ²⁻ hydrogen phosphate	PO ₄ ³⁻ phosphate	4.24×10^{-13}	12.37	2.34×10^{-2}	1.63

$B(OH)_4^-$ tetrahydroxy borate	HBO_3^{2-} hydrogen borate	3.98×10^{-13}	12.4	2.51×10^{-2}	1.6
HBO_3^{2-} hydrogen borate	BO_3^{3-} borate	5.01×10^{-14}	13.3	2.0×10^{-1}	0.7
OH^- hydroxide	O^{2-} oxide	1.58×10^{-14}	13.8	6.3×10^{-1}	0.2
HS^- hydrogen sulfide	S^{2-} sulfide	Doesn't exist as S^{2-} in aqueous alkaline solution			
$C_6H_6O_7^{3-}$ hydrogen citrate	$C_6H_5O_7^{4-}$ citrate	3.98×10^{-15}	14.4	2.51	-0.4

Thanks to Wikipedia for data

Rev. A, WEV, 12-12-2024