

List of Acids and Bases

STRONG ACID

perchloric acid
hydroiodic acid
hydrobromic acid
hydrochloric acid
nitric acid
sulfuric acid (diprotic)

FORMULA

HClO_4
 HI
 HBr
 HCl
 HNO_3
 H_2SO_4

WEAK ACID

acetic acid
arsenic acid
ascorbic acid (1)
ascorbic acid (2)
benzoic acid
boric acid (1)
boric acid (2)
boric acid (3)
bromic acid
butanoic acid
carbonic acid (1)
carbonic acid (2)
chloric acid
chlorous acid
chromic acid (1)
chromic acid (2)
citric acid (1)
citric acid (2)
citric acid (3)
formic acid
heptanoic acid
hexanoic acid
hydrocyanic acid

FORMULA

$\text{H}(\text{C}_2\text{H}_3\text{O}_2)$ or CH_3COOH
 H_3AsO_4
 $\text{H}_2(\text{C}_6\text{H}_6\text{O}_6)$
 $(\text{HC}_6\text{H}_6\text{O}_6)^-$
 $\text{C}_6\text{H}_5\text{CO}_2\text{H}$
 H_3BO_3
 $(\text{H}_2\text{BO}_3)^-$
 $(\text{HBO}_3)^=$
 HBrO_3
 $\text{H}(\text{C}_4\text{H}_7\text{O}_2)$
 H_2CO_3
 $(\text{HCO}_3)^-$
 HClO_3
 HClO_2
 H_2CrO_4
 $(\text{HCrO}_4)^-$
 $\text{H}_3(\text{C}_6\text{H}_5\text{O}_7)$
 $(\text{H}_2\text{C}_6\text{H}_5\text{O}_7)^-$
 $(\text{HC}_6\text{H}_5\text{O}_7)^=$
 $\text{H}(\text{CHO}_2)$ or HCOOH
 $\text{H}(\text{C}_7\text{H}_{13}\text{O}_2)$
 $\text{H}(\text{C}_6\text{H}_{11}\text{O}_2)$
 HCN

hydrofluoric acid	HF
hydrogen sulfate ion	HSO_4^-
hydrosulfuric acid	H_2S
hypochlorous acid	HClO
iodic acid	HIO_3
lactic acid	$\text{H}(\text{C}_3\text{H}_5\text{O}_3)$
nitrous acid	HNO_2
octanoic acid	$\text{H}(\text{C}_8\text{H}_{15}\text{O}_2)$
oxalic acid (1)	$\text{H}_2(\text{C}_2\text{O}_4)$
oxalic acid (2)	$(\text{HC}_2\text{O}_4)^-$
pentanoic acid	$\text{H}(\text{C}_5\text{H}_9\text{O}_2)$
perchloric acid	HClO_4
phosphoric acid (1)	H_3PO_4
phosphoric acid (2)	$(\text{H}_2\text{PO}_4)^-$
phosphoric acid (3)	$(\text{HPO}_4)^=$
phosphorous acid	H_3PO_3
propanoic acid	$\text{H}(\text{C}_3\text{H}_5\text{O}_2)$
silicic acid	H_2SiO_3
sulfuric acid (2)	$(\text{HSO}_4)^-$
sulfurous acid (1)	H_2SO_3
sulfurous acid (2)	$(\text{HSO}_3)^-$
uric acid	$\text{H}(\text{C}_5\text{H}_3\text{N}_4\text{O}_3)$

Strong **BASES**

FORMULA

sodium hydroxide	NaOH
potassium hydroxide	KOH
barium hydroxide	$\text{Ba}(\text{OH})_2$
lithium hydroxide	LiOH
rubidium hydroxide	RbOH
cesium hydroxide	CsOH
magnesium hydroxide	$\text{Mg}(\text{OH})_2$
calcium hydroxide	$\text{Ca}(\text{OH})_2$
strontium hydroxide	$\text{Sr}(\text{OH})_2$

Weak **BASE**

alanine

ammonia (water)

ammonia

dimethylamine

ethylamine

glycine

hydrazine

methylamine

trimethylamine

pyridine

FORMULA

