

3 • What Happens When Chemicals Are Mixed Together?

Answers NAMING ACIDS

An ionic compound in which the cation is H^+ is an *acid*.

- Fill in all of the negative ions (anions) in your list.
- Write the formula of the compound formed between H^+ and your anion. This is the formula of the acid.
- Name the acid according to these rules:
 - “_____ide” → “hydro_____ic acid”
 - “_____ate” → “_____ic acid”
 - S add “ur” P add “or”

	Anion	Acid Formula	Acid Name
acetate	$C_2H_3O_2^-$	$HC_2H_3O_2$	acetic acid
nitrate	NO_3^-	HNO_3	nitric acid
permanganate	MnO_4^-	$HMnO_4$	permanganic acid
chlorate	ClO_3^-	$HClO_3$	chloric acid
chromate	CrO_4^{2-}	H_2CrO_4	chromic acid
sulfate	SO_4^{2-}	H_2SO_4	sulfuric acid
carbonate	CO_3^{2-}	H_2CO_3	carbonic acid
dichromate	$Cr_2O_7^{2-}$	$H_2Cr_2O_7$	dichromic acid
phosphate	PO_4^{3-}	H_3PO_4	phosphoric acid

chloride	Cl^-	HCl	hydrochloric acid
fluoride	F^-	HF	hydrofluoric acid
bromide	Br^-	HBr	hydrobromic acid
** hydroxide	OH^-	H_2O	water
iodide	I^-	HI	hydroiodic acid
sulfide	S^{2-}	H_2S	hydrosulfuric acid
** oxide	O^{2-}	H_2O	water

** be careful... these are NOT acids.