

Several other acids can be easily found by adding or subtracting oxygen atoms from the "parent" oxy-acids.

- 2 less oxygen
than parent group

- add prefix "hypo-" to the
"- ous acid"

e.g. hypo_____ous acid

- 1 less oxygen
than parent group

- change "- ic" to "- ous"

e.g. _____ous acid

- parent group

e.g. _____ic acid

- 1 more oxygen
than parent group

- add prefix "per -" to the
"- ic acid"

e.g. per_____ic acid

HClO hypochlorous acid

HNO hyponitrous acid

H₂CO hypocarbonous acid

H₂SO₂ hyposulphurous acid

H₃PO₂ hypophosphorous acid

HClO₂ chlorous acid

HNO₂ nitrous acid

H₂CO₂ carbonous acid

H₂SO₃ sulphurous acid

H₃PO₃ phosphorous acid

HClO₃ chloric acid

HNO₃ nitric acid

H₂CO₃ carbonic acid

H₂SO₄ sulphuric acid

H₃PO₄ phosphoric acid

HClO₄ perchloric acid

HNO₄ pernitric acid

H₂CO₄ percarbonic acid

H₂SO₅ persulphuric acid

H₃PO₅ perphosphoric acid

1. Name the following acids:

a) HF_(aq)

b) H₂S_(aq)

c) HNO_{2(aq)}

d) H₂CO_{3(aq)}

e) H₃PO_{5(aq)}

f) HCN_(aq)

g) HClO_{3(aq)}

h) H₂SO_{2(aq)}

2. Write the formula for the following acids:

a) hydroiodic acid

b) carbonous acid

c) sulphuric acid

d) hydrochloric acid

e) hyponitrous acid

f) persulphuric acid

g) carbonic acid

g) hypochlorous acid