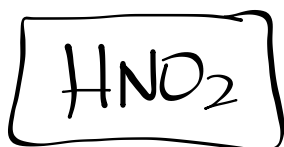


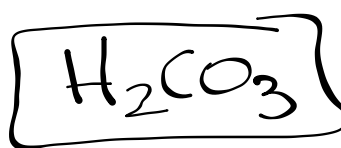
Warm Up

Write chemical formulas for the following acids:

a) nitrous ^{ite} acid



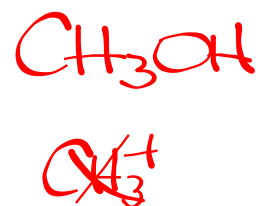
b) carbonic ^{ate} acid



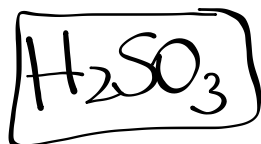
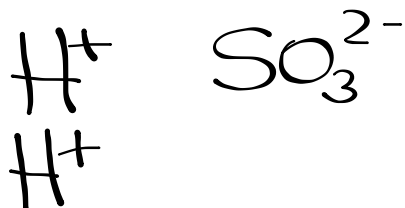
Homework

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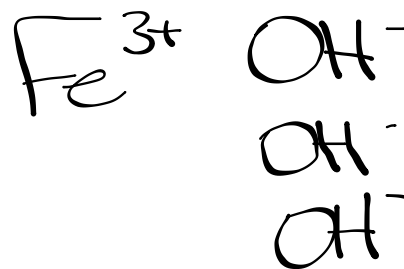
- 31 $\text{Ba}(\text{OH})_2$ - base
 HClO_4 - acid
 $\text{Fe}(\text{OH})_3$ - base
 KOH - base



32 b) sulfurous acid

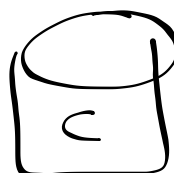
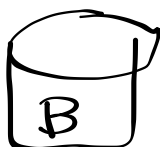
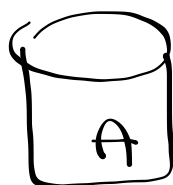


c) iron(III) hydroxide



Empirical Tests

Compound	Conductivity	Litmus
ionic	✓	no change
molecular	✗	no change
acid	✓	blue → red
base	✓	red → blue



BASE



KOH





Identify each of the following as an acid, base, ionic compound or molecular compound.

Unknown	SATP State	Solution Conductivity	Litmus Test
BASE B	solid	yes	red to blue
MOLECULAR B	liquid	no	no change
ACID D	gas	yes	blue to red
IONIC D	solid	yes	no change

Identify each unknown as NH_3 , $\text{Ba}(\text{OH})_2$, NaNO_3 or HCl .

B A D C

Compounds Worksheet