

Acid and Base Strength Worksheet

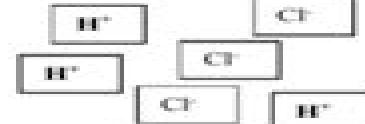
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What makes an acid **acidic** are the excess **Hydrogen ions (H^+)*** that these substances cause in a water solution.

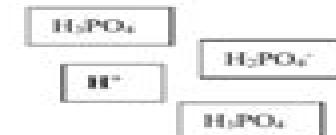
Strong acids, like HCl , dissociate (break up) completely in solution, giving a maximum number of hydrogen ions. Another way to say this is, strong acids **IONIZE** completely while weak acids don't.



HCl particles ionize completely in water to yield H^+ and Cl^- .
Thus HCl is a **STRONG ACID**.



Only some H_3PO_4 particles ionize in water. So in a solution there will be intact H_3PO_4 particles as well as H^+ and $H_2PO_4^-$. Thus H_3PO_4 is a **WEAK ACID**.



So, how do you know which acids are strong and which are weak?
Easy: there are a few rules.

First, a few definitions:

- A **binary acid** is made of **two elements**: hydrogen and something else. HCl is a binary acid made of hydrogen and chloride. Count 'em. Hydrogen (one), chloride (two). Ta-da!
- A **ternary acid** is made of **more than two elements**: hydrogen and at least two other elements. H_2SO_4 , with three elements, is a ternary acid. So is H_3PO_4 and acetic acid, $HC_2H_3O_2$. (Notice acid formulas always start with a hydrogen. These are the hydrogens that can break free in water to a lesser or greater degree depending on the strength of the acid.)

THE RULES for deciding if an acid is strong or weak!

- **The only strong binary acids are HCl , HBr , and HI .** (Notice Cl, Br, and I are together on the periodic table.) All other binary acids are weak.
- Ternary acids are a little trickier, but not much. Compare the number of oxygens and hydrogens in the formula. **If the number of oxygens exceeds the number of hydrogens by 2 or more, the acid is strong.** All other ternary acids are weak.

H_3PO_4 3 hydrogens and 4 oxygens (only one more oxygen than hydrogen). **WEAK**

H_2SO_4 2 hydrogens and 4 oxygens (two more oxygens than hydrogen). **STRONG**.

*Technically, the free H^+ usually combines with a water molecule to form a hydronium ion (H_3O^+), but we will ignore this for the time being.

19 2 Hydrogen Ions And Acidity Worksheet Answers

Rod O'Connor

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- Chapter 5: Conclusion

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