

Comparing Acids and Bases

Compare the properties of acids and bases by completing the table below.

Property	Acid	Base
Taste	1.	2.
Feel	N/A	3.
Reactivity with some metals	4. Reacts to form _____	5. _____ react with metals
Reaction with some carbonates (such as baking soda)	6. Reacts to form _____	Does not react with carbonates
Litmus paper test	7. Red litmus turns _____	8. Blue litmus turns _____
Conducts electricity?	9.	10.
Ion produced in water solution	11.	12.
Examples	HCl HNO ₃	NaOH KOH

Explore the nature of acids and bases by classifying each statement as referring to an acid or a base. Place an *A* in the blank if the statement refers to an acid, or a *B* if it refers to a base.

13. _____ The solution H₂SO₄ is found in a car's battery.
14. _____ Soap is made with NaOH.
15. _____ Antacids are often made with a compound that has a hydroxide group to neutralize the excess acid in the stomach.
16. _____ The sour taste of lemons is due to this class of compounds.
17. _____ Litmus paper turns pink when dipped in vinegar.
18. _____ Look at the reaction below:

$$\text{Zn} + 2\text{HCl} \rightarrow \text{H}_2 + 2\text{ZnCl}_2$$
 Based on the reaction, HCl belongs to this class of compounds.