

Acid Base POGIL Learning Activity 1: Introduction & Naming

How do acids and bases behave in water?

Directions

Acids and bases play an important role in our lives. Numerous biological processes, industrial applications, and even environmental problems are a function of the acidity or basicity (alkalinity) of aqueous solutions. In this activity, we will explore the physical and chemical properties of acids and bases. Work on each section and do the stop activities before moving on to the next section.

Model 1. Table of Common Acids and Bases

Common Name for Aqueous Solution	Chemical Formula	Found in...	Turns Litmus Paper...	Water Soluble?	Acid or Base
Acetic acid	$\text{HC}_2\text{H}_3\text{O}_2$ (aq)	Vinegar	Red	Yes	Acid
Benzoic acid	$\text{HC}_7\text{H}_5\text{O}_2$ (aq)	Preservative	Red	Yes	Acid
Phosphoric acid	H_3PO_4 (aq)	Soda pop	Red	Yes	Acid
Hydrochloric acid	HCl (aq)	Stomach acid	Red	Yes	Acid
Magnesium hydroxide	$\text{Mg}(\text{OH})_2$ (aq)	Milk of magnesia	Blue	Yes	Base
Aluminum hydroxide	$\text{Al}(\text{OH})_3$ (aq)	Antacids	Blue	Yes	Base
Barium hydroxide	$\text{Ba}(\text{OH})_2$ (aq)	Lubricants	Blue	Yes	Base
Sodium hydroxide	NaOH (aq)	Drain cleaner	Blue	Yes	Base

1. Look at Model 1. What is the chemical name for milk of magnesia? Is it classified as an acid or a base?
2. Examine the properties of the acids in Model 1. Describe what these acids have in common.

Introduction To Acids And Bases Pogil Key

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Introduction To Acids And Bases Pogil Key:

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