

Intro: An acid is a compound that contains hydrogen. Although some acids like citric acid are consumable, others will burn skin and even melt straight through metal.

Conclusion: not all indicators work the same way. Some give more precise readings than others but none are 100% accurate since it's up to human judgment.

Vocab:

Acid- typically a sour or corrosive liquid

Base- a substance that can accept hydrogen ions in water and can neutralize an acid

Indicator- a chemical compound that changes its color when in the presence of an acid or a base.

Ph- a measure of how acidic or basic a substance is

DATA/OBSERVATIONS FOR DISTINGUISHING BETWEEN ACIDS & BASES
VIA VARIOUS INDICATORS

Substance	Litmus Paper (R or B)	PH Strip - Indicate Color & #	Golden Rod Paper (Y or N for color change)	Phenolphthalein (Y or N for color change)	Bogen Universal Indicator Indicate Color	Acid or Base
Vinegar	R	4	Y	Y	Light red	A
Bleach	B	10	Y	Y	Light blue	B
Ammonia	B	11	Y	Y	Light blue	B
Orange Juice	R	3	Y	Y	Light red	A
Lemon Juice	R	2	Y	Y	Light red	A
MCM	B	9	Y	Y	Light blue	B

~~7 is neutral~~
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 acid