



Bicarbonate Indicator

(hydrogencarbonate indicator)



PRECAUTIONS:

When preparing solutions always wear appropriate PPE including eye protection and gloves. Always add acid to water (never water to acid). Use a fume cupboard. You should always carry out a risk assessment when using any chemicals. Follow all recommended safety procedures and adhere to the label instructions, hazard warnings and local legislations.

RECIPE:

Follow the below steps to form the Bicarbonate Indicator:

1. Mix 0.2g thymol blue and 0.1g cresol red with 20ml ethanol.
2. Mix 0.84g ANALAR grade sodium hydrogen carbonate (sodium bicarbonate) with 200ml water.
3. Add the first solution to the second solution and dilute to 1000ml water.
4. Dilutions should be made with recently boiled distilled water at 1:10 ratio when required for use.
5. Bubble air through the diluted solution to equilibrate it.
(A new/clean fish tank pump can be used for this.)
6. Solution should be a deep cherry red colour.

EXPERIMENTS:

Bicarbonate indicator can be used in the following experiments (scan or see website for details):



Gas Exchange
in Plants



Carbon Dioxide in
Photosynthesis



FLAMMABLE
(ETHANOL)

CONVERSIONS:

- 1ml = 1 millilitre = 1cm³ = 1/1000th Litre
- 1 Litre = 1dm³ = 1000ml
- 1M = 1mol dm⁻³ = 1 mol l⁻¹ = 1 mole per litre

WATER:

Distilled water should be used unless otherwise stated. Tap water is not suitable as it contains impurities.

Order your
ingredients **24/7**
at **SciChem.com**

