

Preparation and Standardization of 0.1 M Sodium Hydroxide

Preparation and standardisation of 0.1 M Sodium Hydroxide using Benzoic acid and Thymolphthalein solution as indicator.

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Sodium Hydroxide Solution Preparation

- Take about 100ml of distilled water in a cleaned and dried 1000 ml volumetric flask.
- Add about 4.2 gm of Sodium hydroxide with continues stirring.
- Add more about 700ml of distilled water, mix and allow to cool to room temperature.
- Make up the volume 1000 ml with distilled water. Mix solution thoroughly.
- Keep the solution for at least an hour and then carry out the standardization.

Sodium Hydroxide Solution Standardization

- Accurately weigh about 0.5 g of potassium biphthalate, previously crushed lightly and dried at 120° for 2 hours.
- Dissolve in 75 ml of carbon dioxide free water.
- Add 2 drops of phenolphthalein, and titrate with the sodium hydroxide solution to the production of a permanent pink color.
- Each 20.42 mg of potassium biphthalate is equivalent to 1 ml of 0.1N sodium hydroxide.

Calculation

Wt. in gm of potassium biphthalate

M= -----

0.20423 x ml NaOH solution

Also see: [Determination of Shelf Life of Solutions in Laboratory](#)



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