



Petals as Indicators in Acid and Base Titrations

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Introduction:

Indicators are substance which can be to change their color in acidic or basic medium.

There are indicators which are made from industries such as Methyl Orange (M.O) and phenolphthalein (P.O.P) which are commonly used in laboratory for the practical (Volumetric Analysis). While doing acid base titration the indicators can show the point of neutralization where the certain volume of base has completely reacted with the particular volume of the acids to form salt and water as the only product.

The students wants to use the natural indicators which can be obtained from the petals of the flowers with different colors, then to test them practically in both acids and base s to see if they can change their colors in acidic medium as well as in the basic medium. This will be the way forwards in which the same indicators prepared by the students will be used in the practical such as volumetric analysis.

Also this will make exposure to the students to be creative and innovative not only for this but also in doing other scientific research.

Having our indicators will minimize the expenses of buying the indicators from the industries which are very expensive.



Procedure:



The materials which will be used to perform this project will be.

- .Mortar and pestle for grinding the flower petals
- .Beaker for holding water to in mix the flower petals
- .Filter paper for filtering the mixture.
- . Flowers of different colors for grinding and making indicators.
- .Acids as a medium where indicator can change its color.
- .Water
- .Reagent bottle for keeping the indicator.
- .Dropper for taking indicator from the reagents bottle and use it.
- .Razor blade for cutting the flowers.
- .Container for collecting the flowers.

Results:

METHODOLOGY

The methods which will be commonly used will be experimentation where by will be done by doing experiment.

The practical will involve taking the indicator and test it in different medium i.e. in acidic and basic medium to find out if the color will change.



Conclusions:

Natural indicators are very useful interns of cost and availability this is because flowers of different colors can be easily obtained from our environment and used to make the Indicators.

The flowers especially petals once are picked does not affect environment hence it is environmental friend. For the young scientist they have learnt how to use the available resources in order to save cost and develop themselves as well as surrounding society.

Further information:

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