



POTASSIUM BROMATE TITRATION

Preparation and standardisation of 0.05 M Bromine solution using Sodium Thiosulphate

Bromine Solution Preparation

Dissolve 3 g of potassium bromate and 15 g of potassium bromide in sufficient water to produce 1000 ml.

Standardize the solution in the following manner.

Bromine Solution Standardization

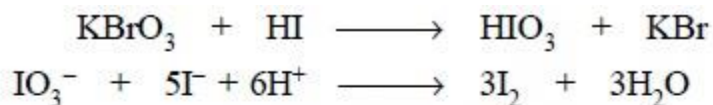
Pipette 25.0 ml of the solution into a 500 ml iodine flask and dilute with 120 ml of water.

Add 5 ml of hydrochloric acid, insert the stopper in the flask and shake it gently.

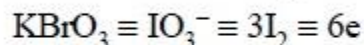
Add 5 ml of potassium iodide solution, again insert the stopper and allow it to stand for 5 minutes in the dark.

Titrate the liberated iodine with 0.1 M sodium thiosulphate using 3 ml of starch solution, added towards the end of the titration, as an indicator.

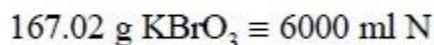
1 ml of 0.1 M sodium thiosulphate is equivalent to 0.002784 g of Br₂.



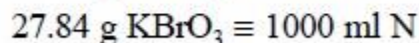
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