

## II. Assay of Drugs

### 1. Chlorpromazine HCl

#### Aim:

To perform assay of chlorpromazine HCl.

#### References:

1) Indian Pharmacopoeia vol – II page no.1599

#### Requirements:

- 1) Chemicals: Acetone, 0.1 M Perchloric acid, Methyl orange etc.
- 2) Apparatus: Beaker, Pipette, Burette, measuring cylinder, conical flask etc.

#### Procedure:

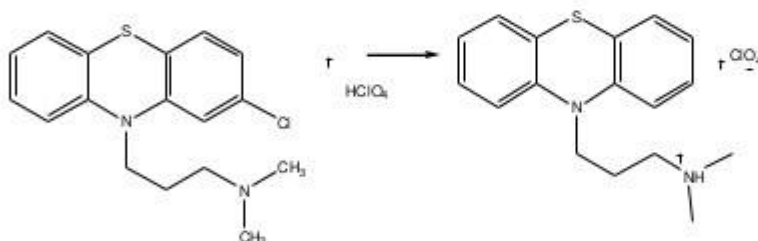
Weigh accurately about 0.6 g, dissolve in 200 ml of acetone and add 15 ml of mercuric acetate solution. Titrate with 0.1 M perchloric acid, using a saturated solution of methyl orange in acetone as indicator. Carry out a blank titration.

1 ml of 0.1 M perchloric acid is equivalent to 0.03553 g of chlorpromazine hydrochloride.

#### Principle \ Theory:

The assay of chlorpromazine HCl can be carried out by using non-aqueous titration. In the assay of chlorpromazine methyl orange used as indicator.

#### Reaction:



**Result:** The % purity of chlorpromazine HCl was found to be-----

#### Conclusion: