CH1102 Lab Report-07

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Expt. NO. : Synthesis of Molybdenum Blue.

AIMS and OBJECTIVES :-

To synthesize Molybdenum Blue.

APPARATUS REQUIRED :-

→ Conical Flask
→ Measuring Cylinder
→ Beaker
→ Glass Rod.

CHEMICALS REQUIRED :-

→ Ammonium Molybdate $(NH_4)_6Mo_7O_{24}$
→ 2M HCl
→ Zn Dust
→ Deionised Water

EXPERIMENTAL PROCEDURE :-

- Take 0.75g of ammonium molybdate and 25mL of deionised water (using measuring cylinder) and mix with rod and slightly heat to obtain clear ammonium molybdate sol^n (25ml) (3% w/v)
- Acidify the prepared solution using 2M HCl solution.
- Check pH of the acidified solution using indicator papers.
- Add pinch of Zn-dust to the acidified solution and mix with glass rod.

RESULTS and OBSERVATIONS :-

Mixing and stirring the acidified ammonium molybdate sol^n will produce deep blue coloration.

CONCLUSION :-

The blue color produced marks the synthesis of molybdenum blue.