

EXPERIMENT No.5

AIM: To prepare crystals of Mohr's salt.

THEORY: Mohr's salt i.e. ferrous ammonium sulphate $[\text{FeSO}_4 \cdot (\text{NH}_4)_2\text{SO}_4 \cdot 6\text{H}_2\text{O}]$ is a double salt. It can be prepared by making equimolar solution of hydrated ferrous sulphate and ammonium sulphate in minimum amount of water. A few ml of dil. H_2SO_4 is added to prevent the hydrolysis of $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$. Cooling of the hot saturated solution yields light green crystals of Mohr's salt.



RESULT- Colour of the crystals: Light green
Shape of the crystals: Monoclinic.