

## AC ELECTRICAL CONDUCTIVITY OF OCTAPHENYL ETAPYRAZINOPORPHRAZINE CUPPER (II)

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### ABSTRACT

Ac conductivity in the frequency range of  $5 \times 10^3$  to  $5 \times 10^5$  Hz of Octapheny tetrapyrazinoporphrazine Copper (II) (OpTpPzCu) was measured, which consists of frequency independent (Dc conductivity) and frequency dependent part. This kind of conductivity results from hopping of charge carriers between localized sites around Fermi levels. The hopping sites is indication of the degree of imperfection in the crystal. The number of the hopping sites was calculated using Webb and William equation which is estimated to be  $1 \times 10^{20} \text{ eV}^{-1} \text{ cm}^{-3}$ .

**KEYWORDS:** Octaphenyl Tetrapyrazino Porphrazine Copper (II), Frequency Independent (Conductivity, Frequency Dependent Conductivity).