

## SEMICONDUCTION IN MERCURY(II) CARBONATE

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**Abstract :** The temperature variation of the conductivity and diffuse reflectance spectra of mercury(II) carbonate was determined. It is found that the material behaves as a semiconductor of band ca. 2.3 eV. Differential thermal analysis indicated that the decomposition temperature of mercury(II) carbonate is ca. 265°C. The polycrystalline nature of the material was established by X-ray diffractometry.