

***Preparation And Properties of Some Enaminothiones Derived
From Dibenzoylmethane***

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ABSTRACT

Some new enaminothiones derived from dibenzoylmethane were prepared. Their n.m.r., electronic and i.r spectra were recorded. N.m.r. spectral data exhibited a broad signal in the region 15.70 – 16.01 ppm attributed to the S...H — N proton in enaminothiones form. Electronic spectra exhibited three strong bands, the band within the range 438 – 446 nm is attributed to the $\pi \rightarrow \pi^*$ transition in the system HN-CH=C-C=S in enaminothiones form. I.r. data confirm this and displayed very weak broad absorption within the region 2700 cm⁻¹ due to the hydrogen-bonded stretching vibration of N-H group, and strong absorption within the region 1050 – 1200 cm⁻¹ due to C=S stretching vibration in the enaminothiones form. No signal was detected for the presence of either iminothione or iminothiole forms.