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Title: Mono and trivalent thallium-sulfur interactions and their influence on the formation of nano thallium sulphide: Single crystal X-ray structural and spectral studies on thallium(I) / (III) – cyclohexylpiperazine dithiocarbamates

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IR spectrum of 1-cyclohexylpiperazinedithiocarbamic acid
UV spectrum of 1-cyclohexylpiperazinedithiocarbamic acid
IR spectra of (a) [Tl(chpzdtc)]$_2$ and (b) [Tl(chpzdtc)$_3$]
$^1$H NMR Spectra of (a) [Tl(chpzdtc)]$_2$ and (b) [Tl(chpzdtc)$_3$]
$^{13}$C NMR Spectrum of [Tl(chpzdtc)$_3$]