

## Sulfur(II)-metal coordination compounds. Group VI metal carbonyl complexes with N,N'-thiobisamines ligands

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The novel complexes  $M(\text{CO})_5\text{S}(\text{NR}_2)_2$  ( $M = \text{Cr}, \text{Mo}$  or  $\text{W}$ ) have been prepared by the addition of N,N'-thiobisamine ( $\text{NR}_2 = \text{dimethylamine}, \text{piperidine}, \text{morpholine}$  or  $\text{dibenzylamine}$ ) to UV-irradiated tetrahydrofuran solutions of  $M(\text{CO})_6$ . The IR,  $^1\text{H}$ NMR, and UV-visible spectral data used for characterizing the products support the coordination of the thiobisamine via the sulfur(II) atom. ©

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