

Kristallstruktur von $[\text{Mo}(\text{CO})_3(\text{NCMe})(\text{S}'\text{Bu})]_2$

Crystal Structure of $[\text{Mo}(\text{CO})_3(\text{NCMe})(\text{S}'\text{Bu})]_2$

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Molybdenum Carbonyl Complex, Thiolato Complex, Crystal Structure

Single crystals of $[\text{Mo}(\text{CO})_3(\text{NCMe})(\text{S}'\text{Bu})]_2$ (**1**) and $[\{\text{Mo}(\text{CO})_3\}_2\{\text{Mo}(\text{CO})_2\}\{\text{S}'\text{Bu}\}_4]$ (**2**) were obtained by the reaction of $[\text{Mo}(\text{CO})_3(\text{NCMe})_3]$ with $[(\text{PhCH}_2)_2\text{GaS}'\text{Bu}]_2$ in 1,4-dioxane. The X-ray structure determination of **1** showed the presence of a Mo_2S_2 four-membered ring with a Mo-Mo bond length of 296,7(1) pm. Space group Pbcu, $Z = 4$, lattice dimensions at -80°C : $a = 1588,2(3)$, $b = 905,8(1)$, $c = 1676,0(1)$ pm, $R_1 = 0,0555$.

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