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### Synthesis and crystal structure of the novel trimanganese tetrathiolate incomplete cubane: $[\text{Mo}(\eta^5\text{-C}_5\text{H}_5)_2(\text{H})\text{CO}]$ $[\text{Mn}_3(\text{CO})_9(\eta^{1/4}\text{-SC}_6\text{H}_5)_4]$

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#### Abstract

An unexpected trimanganese(I) tetrathiolate-bridged complex,  $[\text{Mn}_3(\text{CO})_9(\eta^{1/4}\text{-SC}_6\text{H}_5)_4]^{\hat{a}}$ , with an incomplete cubane structure, was obtained by thermal reaction of  $[\text{Mn}_2(\text{CO})_{10}]$  with  $[\text{Mo}(\eta^5\text{-C}_5\text{H}_5)_2(\text{SC}_6\text{H}_5)_2]$ . The structure, established by single-crystal X-ray diffraction studies, shows the cation,  $[\text{Mo}(\eta^5\text{-C}_5\text{H}_5)_2(\text{H})\text{CO}]^+$ , directed towards the vacant site of the cubane structure. Possible routes by which the anion and the cation could be formed are discussed.



## Keywords

Trinuclear; Manganese incomplete cubane; Thiolate-bridged; Molybdenum biscyclopentadienyl; Carbonyl; Hydride

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