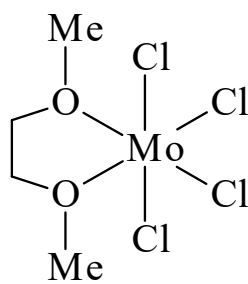




>>Entry Name: Tetrachloro(1,2-dimethoxyethane-*O,O'*)molybdenum

Synonym(s): Molybdenum(*IV*) chloride dimethoxyethane



CAS Registry Number: 134535-29-8

Molecular Formula: $\text{C}_4\text{H}_{10}\text{Cl}_4\text{MoO}_2$

Molecular Weight: 327.873

Accurate Mass: 327.848894

Percentage Composition: C 14.65%; H 3.07%; Cl 43.25%; Mo 29.26%; O 9.76%

Source/Synthesis: MoCl_5 partly dissolved in DME + allyltrimethylsilane gives high yield synth.

Physical Description: Air- and light-sensitive red cryst. (toluene) or dark brown cryst.

Melting Point: Mp 172-176°

Solubility: Sol. DME, toluene; sl. sol. pentane

Other Data: Forms a solvate with 15-crown-5

References:

Hey-Hawkins, E. *et al.*, *Z. Naturforsch., B*, 1991, **46**, 307, (*synth, cryst struct, uv-vis, magnetism, ir*)

Persson, C. *et al.*, *Inorg. Chim. Acta*, 1993, **203**, 235, (*synth, ir*)