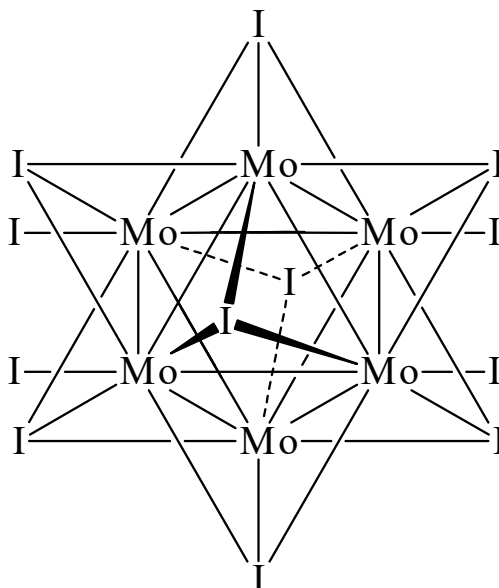




>>Entry Name: Molybdenum iodide (Mo_6I_{12})

Synonym(s): Molybdenum(II) iodide ($(\text{Mo}_6\text{I}_8)\text{I}_4$). Octa- μ_3 -iodotetraiodohexamolybdenum



CAS Registry Number: 14055-74-4

Molecular Formula: I_{12}Mo_6

Molecular Weight: 2098.494

Accurate Mass: 2110.286112

Percentage Composition: I 72.57%; Mo 27.43%

Source/Synthesis: Synth. e.g. by melting a mixt. of MoCl_2 with LiI followed by extraction of LiCl with water

Physical Description: Black solid. Not readily hydrol.

Solubility: Insol. H_2O

Other Data: Diamagnetic

>>Derivative: 'Monomer'

Synonym(s): Molybdenum(II) iodide (MoI_2)

Molecular Formula: I_2Mo

Molecular Weight: 349.749

Accurate Mass: 351.714352

Percentage Composition: I 72.57%; Mo 27.43%

References:

Von Schäfer, H. *et al.*, *Z. Anorg. Allg. Chem.*, 1967, **353**, 281, (*struct*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **3**, 1539, (*synth*)

Nouveau Traite de Chimie Minerale, Masson, 1976, **5**, 60, (*rev*)