>>**Entry Name: Lead(*II*) molydenum(*VI*) oxide ($PbMoO_4$),** 10Cl
Synonym(s): Molybdic acid (H_2MoO_4), lead(2+) salt (1:1), 9Cl. Lead molybdate ($PbMoO_4$)

CAS Registry Number: 10190-55-3

$PbMoO_4$

Molecular Formula: MoO_4Pb
Molecular Weight: 367.138
Accurate Mass: 369.861693
Percentage Composition: Mo 26.13%; O 17.43%; Pb 56.44%

Source/Synthesis: Synth. from MoO_3 + PbO or $PbCO_3$
Use/Importance: Acoustooptic material
Physical Description: Yellow powder
Melting Point: Mp 1065°
Solubility: Insol. H_2O, EtOH

Aldrich: 33707-2

>>**Variant:** Mineral-form
Synonym(s): Wulfenite
Extra CAS Registry Numbers(s): 14913-82-7
Molecular Formula: MoO_4Pb
Molecular Weight: 367.138
Accurate Mass: 369.861693
Percentage Composition: Mo 26.13%; O 17.43%; Pb 56.44%
Physical Description: Usually square tabular cryst., various shades of orange and yellow, orangish-brown to brown
Other Data: Occurs as a secondary mineral, widespread in USA. Also found in Germany, Australia and Namibia

References:

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Sleight, A.W.*, Acta Cryst. B*, 1972, **28**, 2899, *(cryst struct)*
Tarte, P. *et al.*, *Spectrochim. Acta A*, 1972, **28**, 2029; 2037, *(ir, Raman)*
Mastikhin, V.M. *et al.*, *Chem. Phys. Lett.*, 1988, **148**, 413, *(Mo-95 nmr)*