>>**Entry Name: Aluminium molybdenum oxide ($Al_2Mo_3O_{12}$)**
Synonym(s): Aluminium molybdate ($Al_2(MoO_4)_3$)

CAS Registry Number: 15123-80-5
$Al_2(MoO_4)_3$

Molecular Formula: $Al_2Mo_3O_{12}$
Molecular Weight: 533.776
Accurate Mass: 539.618276
Percentage Composition: Al 10.11%; Mo 53.92%; O 35.97%

ObMo 169.8-181.2 pm
Source/Synthesis: Prepd. by precipitation from Al salts and molybdic acid and subsequent calcining or from Al_2O_3 and MoO_3 in a Pt crucible at 700°
Use/Importance: Commercially available
Physical Description: White powder
Melting Point: Mp 940-965°

References:

Plyasova, L.M. *et al.*, *Izv. Akad. Nauk SSSR, Ser. Khim.*, 1967, **3**, 906; *CA*, **69**, 55156k, *(synth)*
Harrison, W.T.A. *et al.*, *J. Solid State Chem.*, 1988, **76**, 328, *(cryst struct, nd)*