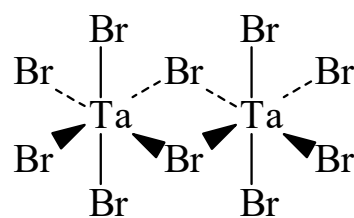




>>Entry Name: Tantalum(V) bromide (TaBr₅), 11Cl

Synonym(s): Tantalum pentabromide



dimer

CAS Registry Number: 13451-11-1

Molecular Formula: Br₅Ta

Molecular Weight: 580.468

Accurate Mass: 575.639672

Percentage Composition: Br 68.83%; Ta 31.17%

Source/Synthesis: Synth. from Ta, Ta₂O₅ or TaCl₅ and various brominating agents

Physical Description: Volatile yellow-red solid

Melting Point: Mp 256-280°

Boiling Point: Bp 344-348°

Other Data: Readily hydrol.

Aldrich: 40046-7

>>Derivative: Dimer

Synonym(s): Di-μ-bromooctabromoditantalum(V)

Molecular Formula: Br₁₀Ta₂

Molecular Weight: 1160.936

Accurate Mass: 1151.279344

Percentage Composition: Br 68.83%; Ta 31.17%

References:

Skinner, H.A. *et al.*, *Trans. Faraday Soc.*, 1940, **36**, 668, (*ed*)

Canterford, J.H. *et al.*, *Halides of the Second and Third Row Transition Metals*, Wiley, N.Y., 1968, 158, (*synth, props*)

Merlin, J.C. *et al.*, *C. R. Hebd. Seances Acad. Sci. Ser. B*, 1971, **272**, 53, (*Raman*)

Druce, P.M. *et al.*, *J.C.S.(A)*, 1971, 3595, (*synth*)

Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **3**, 1455, (*synth*)