



>>Entry Name: Rhenium borides

Molecular Formula: [BRe]

>>Variant: Rhenium boride (Re_7B_2), 9Cl, 8Cl

Molecular Formula: B_2Re_7

Molecular Weight: 1325.071

Accurate Mass: 1330.708818

Percentage Composition: B 1.63%; Re 98.37%

Source/Synthesis: Synth. from elements

Use/Importance: Commercially available

Other Data: A superconductor at 3.08K

>>Variant: Rhenium boride (ReB_2), 9Cl, 8Cl

CAS Registry Number: 12355-99-6

Molecular Formula: B_2Re

Molecular Weight: 207.829

Accurate Mass: 208.974354

Percentage Composition: B 10.40%; Re 89.60%

Source/Synthesis: Synth. from elements

Melting Point: Mp 2400 ° (2280°)

References:

Aronsson, B. *et al.*, *Acta Cryst.*, 1961, **15**, 878, (*cryst struct*)

La Placa, S. *et al.*, *Acta Cryst.*, 1962, **15**, 97, (*cryst struct*)

Portnoi, K.I. *et al.*, *Poroshk. Metall. (Kiev)*, 1968, **8**, 41; *Sov. Powder Metall. Met. Ceram. (Engl. Transl.)*, 1968, 112, (*synth, phase diagram*)

Boron Refract. Borides, (Ed. Matkovich, V.I.), Springer-Verlag, Berlin, 1977, (*rev, bibl*)

Chapnik, I.M., *Phys. Status Solidi A*, 1977, **41**, K71, (*props*)

Kashfi, M. *et al.*, *CA*, 1986, **104**, 13297, (*cryst struct*)