



>>Entry Name: Tetrachlorodiborane(4), 11Cl, 10Cl, 9Cl

Synonym(s): Boron chloride (B₂Cl₄), 8Cl. Diboron tetrachloride

CAS Registry Number: 13701-67-2

Cl₂B-BCl₂ (*D*_{2h} or *D*_{2d})

Molecular Formula: B₂Cl₄

Molecular Weight: 163.433

Accurate Mass: 161.894018

Percentage Composition: B 13.23%; Cl 86.77%

Physical Description: Colourless liq., easily hydrol.

Melting Point: Mp -93°

Boiling Point: Bp 66.5°

References:

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Atoji, M. *et al.*, *J. Chem. Phys.*, 1957, **27**, 196, (*cryst struct*)

Dibeler, V.H. *et al.*, *Inorg. Chem.*, 1969, **8**, 50, (*ms*)

Ryan, R.R. *et al.*, *J. Chem. Phys.*, 1969, **50**, 4986, (*ed*)

Durig, J.R. *et al.*, *J. Chem. Phys.*, 1971, **54**, 5285, (*ir*)

Lynaugh, N. *et al.*, *J.C.S. Faraday 2*, 1972, **68**, 2192, (*pe*)

Barlos, K. *et al.*, *Chem. Ber.*, 1977, **110**, 2774, (*B-11 nmr*, *Cl-35 nmr*)

Inorg. Synth., 1979, **19**, 74, (*synth*)

Briggs, A.G. *et al.*, *Polyhedron*, 1984, **3**, 369, (*synth*)

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