

Boron trichloride

Other names:	BCl ₃ Borane, trichloro- Boron chloride Boron chloride (BCl ₃) Chlorure de bore Trichloroborane Trichloroboron Trona boron trichloride UN 1741
Inchi:	InChI=1S/BCl3/c2-1(3)4
InchiKey:	FAQYAMRNWDIXMY-UHFFFAOYSA-N
Formula:	BCl ₃
SMILES:	ClB(Cl)Cl
Mol. weight [g/mol]:	117.17
CAS:	10294-34-5

Physical Properties

Property code	Value	Unit	Source
ea	0.33 ± 0.20	eV	NIST Webbook
ie	11.60 ± 0.02	eV	NIST Webbook
ie	11.62	eV	NIST Webbook
ie	11.64 ± 0.02	eV	NIST Webbook
log10ws	0.47		Crippen Method
logp	1.688		Crippen Method
tc	0.00	K	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10294345&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
KDB:	https://www.cheric.org/files/research/kdb/mol/mol1893.mol

Legend

ea:	Electron affinity
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
tc:	Critical Temperature

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