

boron fluoride

Other names: Borane(1), fluoro-
Inchi: InChI=1S/BF/c1-2
InchiKey: YFSQMOVEGCCDJL-UHFFFAOYSA-N
Formula: BF
SMILES: [B]F
Mol. weight [g/mol]: 29.81
CAS: 13768-60-0

Physical Properties

Property code	Value	Unit	Source
ie	11.06 ± 0.10	eV	NIST Webbook
ie	11.12 ± 0.01	eV	NIST Webbook
ie	11.00 ± 1.00	eV	NIST Webbook
ie	11.12 ± 0.01	eV	NIST Webbook
ie	11.12	eV	NIST Webbook
ie	12.00 ± 1.00	eV	NIST Webbook
ie	11.45	eV	NIST Webbook
ie	11.12 ± 0.00	eV	NIST Webbook
log10ws	2.17		Crippen Method
logp	0.039		Crippen Method

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C13768600&Units=SI>

Legend

ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l

logp: Octanol/Water partition coefficient

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<https://www.cheméo.com/cid/30-594-9/boron-fluoride.pdf>

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