

Borane

Inchi: InChI=1S/BH3/h1H3
InchiKey: UORVGPXVDQYIDP-UHFFFAOYSA-N
Formula: BH3
SMILES: B
Mol. weight [g/mol]: 13.84
CAS: 13283-31-3

Physical Properties

Property code	Value	Unit	Source
ea	0.04 ± 0.01	eV	NIST Webbook
ie	12.20 ± 0.10	eV	NIST Webbook
ie	12.30 ± 0.10	eV	NIST Webbook
ie	12.03 ± 0.02	eV	NIST Webbook
ie	14.00 ± 2.00	eV	NIST Webbook
ie	11.50 ± 0.50	eV	NIST Webbook
ie	11.00	eV	NIST Webbook
ie	11.40 ± 0.20	eV	NIST Webbook
log10ws	3.33		Crippen Method
logp	-1.184		Crippen Method

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C13283313&Units=SI>

Legend

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

logp: Octanol/Water partition coefficient

Latest version available from:

<https://www.chemeo.com/cid/62-013-8/Borane.pdf>

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