

boron carbide

Inchi: InChI=1S/CB/c1-2
InchiKey: UPGPUHVYNXOPJN-UHFFFAOYSA-N
Formula: CB
SMILES: B#[C]
Mol. weight [g/mol]: 22.82
CAS: 12011-54-0

Physical Properties

Property code	Value	Unit	Source
ea	2.40 ± 0.30	eV	NIST Webbook
ie	10.00 ± 0.60	eV	NIST Webbook
ie	10.50	eV	NIST Webbook
log10ws	2.59		Crippen Method
logp	-0.300		Crippen Method

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.cheméo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C12011540&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.cheméo.com/cid/20-157-5/boron-carbide.pdf>

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