

# Borane, trimethyl-

<b>Other names:</b>	Trimethylborane Trimethylboron (CH <sub>3</sub> ) <sub>3</sub> B
<b>Inchi:</b>	InChI=1S/C3H9B/c1-4(2)3/h1-3H3
<b>InchiKey:</b>	WXRGABKACDFXMG-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>3</sub> H <sub>9</sub> B
<b>SMILES:</b>	CB(C)C
<b>Mol. weight [g/mol]:</b>	55.91
<b>CAS:</b>	593-90-8

## Physical Properties

Property code	Value	Unit	Source
ie	10.69	eV	NIST Webbook
ie	10.40	eV	NIST Webbook
ie	8.80 ± 0.20	eV	NIST Webbook
ie	10.69	eV	NIST Webbook
ie	10.68	eV	NIST Webbook
log10ws	1.42		Crippen Method
logp	1.371		Crippen Method
tt	113.21 ± 0.02	K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	3.25	kJ/mol	113.20	NIST Webbook
hfust	3.25	kJ/mol	113.20	NIST Webbook

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C593908&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## Legend

<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>tt:</b>	Triple Point Temperature

Latest version available from:

<https://www.chemeo.com/cid/47-053-1/Borane-trimethyl.pdf>

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