

# Borane, triphenyl-

<b>Other names:</b>	Triphenylboron Triphenylborane Triphenylborine Triphenylboron
<b>Inchi:</b>	InChI=1S/C18H15B/c1-4-10-16(11-5-1)19(17-12-6-2-7-13-17)18-14-8-3-9-15-18/h1-15H
<b>InchiKey:</b>	MXSVLWZRHLXFKH-UHFFFAOYSA-N
<b>Formula:</b>	C18H15B
<b>SMILES:</b>	<chem>c1ccc(B(c2ccccc2)c2ccccc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	242.12
<b>CAS:</b>	960-71-4

## Physical Properties

Property code	Value	Unit	Source
hsub	92.10 ± 2.50	kJ/mol	NIST Webbook
ie	8.60 ± 0.03	eV	NIST Webbook
log10ws	-14.11		Crippen Method
logp	2.203		Crippen Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	103.80 ± 2.50	kJ/mol	360.00	NIST Webbook
hvapt	64.30	kJ/mol	495.50	NIST Webbook
hvapt	64.40 ± 2.10	kJ/mol	485.50	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C960714&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C960714&amp;Units=SI</a>

# Legend

<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>hvapt:</b>	Enthalpy of vaporization 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

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