

# Diboron tetrafluoride

<b>Other names:</b>	Difluoroborane (BF <sub>2</sub> ) <sub>2</sub>
<b>Inchi:</b>	InChI=1S/B2F4/c3-1(4)2(5)6
<b>InchiKey:</b>	WUWOPJNIAKTBSJ-UHFFFAOYSA-N
<b>Formula:</b>	B <sub>2</sub> F <sub>4</sub>
<b>SMILES:</b>	FB(F)B(F)F
<b>Mol. weight [g/mol]:</b>	97.62
<b>CAS:</b>	13965-73-6

## Physical Properties

Property code	Value	Unit	Source
ie	12.23 ± 0.06	eV	NIST Webbook
ie	12.00 ± 0.01	eV	NIST Webbook
log10ws	3.25		Crippen Method
logp	0.919		Crippen Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	35.50	kJ/mol	193.75	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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=C13965736&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13965736&amp;Units=SI</a>

# Legend

<b>hsubt:</b>	Enthalpy of sublimation 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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