

Borane, dimethoxy-

Other names:	(CH ₃ O) ₂ BH Dimethoxyborane
Inchi:	InChI=1S/C2H7BO2/c1-4-3-5-2/h3H,1-2H3
InchiKey:	VAWRKITUPUFMHV-UHFFFAOYSA-N
Formula:	C ₂ H ₇ BO ₂
SMILES:	COBOC
Mol. weight [g/mol]:	73.89
CAS:	4542-61-4

Physical Properties

Property code	Value	Unit	Source
ie	9.70 ± 1.00	eV	NIST Webbook
log10ws	2.72		Crippen Method
logp	-0.454		Crippen Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.39068e+01
Coeff. B	-2.38018e+03
Coeff. C	-4.27990e+01
Temperature range (K), min.	217.57
Temperature range (K), max.	319.71

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=C4542614&Units=SI

Legend

ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
pvap:	Vapor pressure

Latest version available from:

<https://www.chemeo.com/cid/11-448-2/Borane-dimethoxy.pdf>

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