

Bromomethyl methyl ether

Other names:	Ether, bromomethyl methyl Methane, bromomethoxy- Methoxymethyl bromide
Inchi:	InChI=1S/C2H5BrO/c1-4-2-3/h2H2,1H3
InchiKey:	JAMFGQBENKSWOF-UHFFFAOYSA-N
Formula:	C2H5BrO
SMILES:	COCB
Mol. weight [g/mol]:	124.96
CAS:	13057-17-5

Physical Properties

Property code	Value	Unit	Source
gf	-124.72	kJ/mol	Joback Method
hf	-190.50	kJ/mol	Joback Method
hfus	7.41	kJ/mol	Joback Method
hvap	28.89	kJ/mol	Joback Method
log10ws	-0.67		Crippen Method
logp	0.985		Crippen Method
mcvol	62.410	ml/mol	McGowan Method
pc	5422.51	kPa	Joback Method
tb	360.20	K	NIST Webbook
tc	520.73	K	Joback Method
tf	194.33	K	Joback Method
vc	0.228	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	85.75	J/mol×K	333.74	Joback Method
cpg	89.93	J/mol×K	364.90	Joback Method
cpg	94.00	J/mol×K	396.07	Joback Method
cpg	97.97	J/mol×K	427.23	Joback Method
cpg	101.83	J/mol×K	458.40	Joback Method
cpg	105.58	J/mol×K	489.56	Joback Method

cpg	109.22	J/mol×K	520.73	Joback Method
dvisc	0.0023445	Paxs	194.33	Joback Method
dvisc	0.0014253	Paxs	217.56	Joback Method
dvisc	0.0009538	Paxs	240.80	Joback Method
dvisc	0.0006851	Paxs	264.03	Joback Method
dvisc	0.0005191	Paxs	287.27	Joback Method
dvisc	0.0004100	Paxs	310.50	Joback Method
dvisc	0.0003347	Paxs	333.74	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C13057175&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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