1-Bromo-2-methoxypropene

Inchi: InChI=1S/C4H7BrO/c1-4(3-5)6-2/h3H,1-2H3/b4-3-
InchiKey: QQCZQRCXTYQIKT-ARJAWSKDSA-N
Formula: C4H7BrO
SMILES: COC(C)=CBr
Mol. weight [g/mol]: 151.00

Physical Properties

Property code	Value	Unit	Source
gf	-36.21	kJ/mol	Joback Method
hf	-124.35	kJ/mol	Joback Method
hfus	11.48	kJ/mol	Joback Method
hvap	33.38	kJ/mol	Joback Method
log10ws	-1.86		Crippen Method
logp	1.889		Crippen Method
mcvol	86.290	ml/mol	McGowan Method
pc	4486.22	kPa	Joback Method
ripol	1025.00		NIST Webbook
ripol	1025.00		NIST Webbook
tb	383.54	K	Joback Method
tc	583.66	K	Joback Method
tf	197.83	K	Joback Method
vc	0.321	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	132.64	J/mol×K	383.54	Joback Method
cpg	139.90	J/mol×K	416.89	Joback Method
cpg	146.81	J/mol×K	450.25	Joback Method
cpg	153.37	J/mol×K	483.60	Joback Method
cpg	159.61	J/mol×K	516.96	Joback Method
cpg	165.54	J/mol×K	550.31	Joback Method
cpg	171.17	J/mol×K	583.66	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R593914&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume