Propane, 2-bromo-1-methoxy

Inchi: InChI=1S/C4H9BrO/c1-4(5)3-6-2/h4H,3H2,1-2H3
InchiKey: PBHYCZIZMTYKAS-UHFFFAOYSA-N
Formula: C4H9BrO
SMILES: COCC(C)Br
Mol. weight [g/mol]: 153.02

Physical Properties

Property code	Value	Unit	Source
gf	-110.32	kJ/mol	Joback Method
hf	-237.06	kJ/mol	Joback Method
hfus	9.07	kJ/mol	Joback Method
hvap	32.95	kJ/mol	Joback Method
log10ws	-1.13		Crippen Method
logp	1.416		Crippen Method
mcvol	90.590	ml/mol	McGowan Method
pc	4205.63	kPa	Joback Method
rinpol	742.00		NIST Webbook
rinpol	742.00		NIST Webbook
tb	379.06	K	Joback Method
tc	569.53	K	Joback Method
tf	201.87	K	Joback Method
vc	0.334	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	147.73	J/mol×K	379.06	Joback Method
cpg	155.59	J/mol×K	410.81	Joback Method
cpg	163.17	J/mol×K	442.55	Joback Method
cpg	170.47	J/mol×K	474.30	Joback Method
cpg	177.50	J/mol×K	506.04	Joback Method
cpg	184.26	J/mol×K	537.79	Joback Method
cpg	190.74	J/mol×K	569.53	Joback Method
dvisc	0.0043438	Pa×s	201.87	Joback Method

dvisc	0.0021239	Pa×s	231.40	Joback Method
dvisc	0.0012210	Pa×s	260.93	Joback Method
dvisc	0.0007856	Pa×s	290.47	Joback Method
dvisc	0.0005483	Pa×s	320.00	Joback Method
dvisc	0.0004067	Pa×s	349.53	Joback Method
dvisc	0.0003160	Pa×s	379.06	Joback Method

Sources

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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R12056&Units=SI

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume