Butane, 1-bromo-4-methoxy-

Other names:	Ether, 4-bromobutyl methyl
	«omega»-Bromobutyl methyl ether
	1-Bromo-4-methoxybutane
	1-Methoxy-4-bromobutane
	4-Methoxybutyl bromide
	4-Bromobutyl methyl ether
Inchi:	InChI=1S/C5H11BrO/c1-7-5-3-2-4-6/h2-5H2,1H3
InchiKey:	ALOQTNHQNMYBDE-UHFFFAOYSA-N
Formula:	C5H11BrO
SMILES:	COCCCCBr
Mol. weight [g/mol]:	167.04
CAS:	4457-67-4

Physical Properties

Property code	Value	Unit	Source
gf	-99.46	kJ/mol	Joback Method
hf	-252.42	kJ/mol	Joback Method
hfus	15.18	kJ/mol	Joback Method
hvap	35.57	kJ/mol	Joback Method
log10ws	-1.43		Crippen Method
logp	1.808		Crippen Method
mcvol	104.680	ml/mol	McGowan Method
pc	3690.97	kPa	Joback Method
rinpol	939.90		NIST Webbook
rinpol	927.20		NIST Webbook
tb	402.38	K	Joback Method
tc	587.20	K	Joback Method
tf	228.14	K	Joback Method
vc	0.396	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	182.67	J/mol×K	402.38	Joback Method

cpg	191.72	J/mol×K	433.18	Joback Method
cpg	200.45	J/mol×K	463.99	Joback Method
cpg	208.85	J/mol×K	494.79	Joback Method
cpg	216.94	J/mol×K	525.59	Joback Method
cpg	224.71	J/mol×K	556.39	Joback Method
cpg	232.18	J/mol×K	587.20	Joback Method
dvisc	0.0029827	Pa×s	228.14	Joback Method
dvisc	0.0016566	Pa×s	257.18	Joback Method
dvisc	0.0010367	Pa×s	286.22	Joback Method
dvisc	0.0007073	Pa×s	315.26	Joback Method
dvisc	0.0005147	Pa×s	344.30	Joback Method
dvisc	0.0003935	Pa×s	373.34	Joback Method
dvisc	0.0003128	Pa×s	402.38	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=C4457674&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