

1-Bromo-2-(2-methoxyethoxy)ethane

Other names:	Ethane, 1-(2-bromoethoxy)-2-methoxy-1-bromo-3,6-dioxaheptane
Inchi:	InChI=1S/C5H11BrO2/c1-7-4-5-8-3-2-6/h2-5H2,1H3
InchiKey:	HUXJXNSHCKHFIL-UHFFFAOYSA-N
Formula:	C5H11BrO2
SMILES:	COCCOCCBr
Mol. weight [g/mol]:	183.04
CAS:	54149-17-6

Physical Properties

Property code	Value	Unit	Source
gf	-204.46	kJ/mol	Joback Method
hf	-384.64	kJ/mol	Joback Method
hfus	16.37	kJ/mol	Joback Method
hvap	37.98	kJ/mol	Joback Method
log10ws	-0.52		Crippen Method
logp	1.044		Crippen Method
mcvol	110.550	ml/mol	McGowan Method
pc	3615.89	kPa	Joback Method
tb	424.80	K	Joback Method
tc	609.33	K	Joback Method
tf	250.37	K	Joback Method
vc	0.413	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.77	J/molxK	424.80	Joback Method
cpg	212.66	J/molxK	455.55	Joback Method
cpg	221.29	J/molxK	486.31	Joback Method
cpg	229.66	J/molxK	517.06	Joback Method
cpg	237.76	J/molxK	547.82	Joback Method
cpg	245.60	J/molxK	578.57	Joback Method
cpg	253.16	J/molxK	609.33	Joback Method

dvisc	0.0022786	Paxs	250.37	Joback Method
dvisc	0.0013220	Paxs	279.44	Joback Method
dvisc	0.0008499	Paxs	308.51	Joback Method
dvisc	0.0005895	Paxs	337.59	Joback Method
dvisc	0.0004334	Paxs	366.66	Joback Method
dvisc	0.0003333	Paxs	395.73	Joback Method
dvisc	0.0002657	Paxs	424.80	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C54149176&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
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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