Ethane, 1-bromo-2-methoxy-

Other names:	2-Bromoethyl methyl ether
	1-Bromo-2-methoxyethane
	Ether, 2-bromoethyl methyl
	Methoxyethyl bromide
	2-Methoxyethyl bromide
Inchi:	InChI=1S/C3H7BrO/c1-5-3-2-4/h2-3H2,1H3
InchiKey:	YZUPZGFPHUVJKC-UHFFFAOYSA-N
Formula:	C3H7BrO
SMILES:	COCCBr
Mol. weight [g/mol]:	138.99
CAS:	6482-24-2

Physical Properties

Property code	Value	Unit	Source
gf	-116.30	kJ/mol	Joback Method
hf	-211.14	kJ/mol	Joback Method
hfus	10.00	kJ/mol	Joback Method
hvap	31.12	kJ/mol	Joback Method
ie	10.13	eV	NIST Webbook
ie	10.20	eV	NIST Webbook
log10ws	-0.60		Crippen Method
logp	1.028		Crippen Method
mcvol	76.500	ml/mol	McGowan Method
pc	4730.11	kPa	Joback Method
rinpol	696.00		NIST Webbook
rinpol	716.20		NIST Webbook
rinpol	716.20		NIST Webbook
rinpol	696.00		NIST Webbook
tb	383.00 ± 1.00	K	NIST Webbook
tc	543.29	K	Joback Method
tf	205.60	K	Joback Method
vc	0.283	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	115.42	J/mol×K	356.62	Joback Method
cpg	121.36	J/mol×K	387.73	Joback Method
cpg	127.12	J/mol×K	418.84	Joback Method
cpg	132.70	J/mol×K	449.96	Joback Method
cpg	138.09	J/mol×K	481.07	Joback Method
cpg	143.31	J/mol×K	512.18	Joback Method
cpg	148.34	J/mol×K	543.29	Joback Method
dvisc	0.0026168	Pa×s	205.60	Joback Method
dvisc	0.0015397	Pa×s	230.77	Joback Method
dvisc	0.0010055	Pa×s	255.94	Joback Method
dvisc	0.0007088	Pa×s	281.11	Joback Method
dvisc	0.0005291	Pa×s	306.28	Joback Method
dvisc	0.0004130	Pa×s	331.45	Joback Method
dvisc	0.0003338	Pa×s	356.62	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	313.70	K	8.80	NIST Webbook

Sources

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=C6482242&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ie:	Ionization energy
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume