Butane, 2-methoxy-3-methyl-

Inchi: InChI=1S/C6H14O/c1-5(2)6(3)7-4/h5-6H,1-4H3
InchiKey: JPUDLQKLSRSRGN-UHFFFAOYSA-N
Formula: C6H14O
SMILES: COC(C)C(C)C
Mol. weight [g/mol]: 102.17
CAS: 62016-49-3

Physical Properties

Property code	Value	Unit	Source
gf	-110.24	kJ/mol	Joback Method
hf	-309.95	kJ/mol	Joback Method
hfus	5.44	kJ/mol	Joback Method
hvap	30.58	kJ/mol	Joback Method
log10ws	-1.29		Crippen Method
logp	1.677		Crippen Method
mcvol	101.270	ml/mol	McGowan Method
pc	3103.64	kPa	Joback Method
tb	358.22	K	Joback Method
tc	530.65	K	Joback Method
tf	149.61	K	Joback Method
vc	0.378	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	181.53	J/mol×K	358.22	Joback Method
cpg	232.49	J/mol×K	501.91	Joback Method
cpg	222.93	J/mol×K	473.18	Joback Method
cpg	213.06	J/mol×K	444.44	Joback Method
cpg	202.86	J/mol×K	415.70	Joback Method
cpg	192.36	J/mol×K	386.96	Joback Method
cpg	241.73	J/mol×K	530.65	Joback Method
dvisc	0.0002102	Pa×s	358.22	Joback Method
dvisc	0.0002900	Pa×s	323.45	Joback Method

dvisc	0.0004325	Pa×s	288.68	Joback Method
dvisc	0.0007195	Pa×s	253.92	Joback Method
dvisc	0.0014068	Pa×s	219.15	Joback Method
dvisc	0.0035421	Pa×s	184.38	Joback Method
dvisc	0.0136988	Pa×s	149.61	Joback Method

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=C62016493&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
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

Latest version available from:
https://www.chemeo.com/cid/73-092-9/Butane-2-methoxy-3-methyl.pdf
Generated by Cheméo on 2024-04-26 20:25:24.696787458 +0000 UTC m=+16452373.617364774.
Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.