2-Butene, 2-methoxy-3-methyl-

Inchi: InChI=1S/C6H12O/c1-5(2)6(3)7-4/h1-4H3
InchiKey: QFVDGBFHOZBSII-UHFFFAOYSA-N
Formula: C6H12O
SMILES: COC(C)=C(C)C
Mol. weight [g/mol]: 100.16
CAS: 26578-81-4

Physical Properties

Property code	Value	Unit	Source
gf	-42.24	kJ/mol	Joback Method
hf	-201.75	kJ/mol	Joback Method
hfus	10.07	kJ/mol	Joback Method
hvap	31.48	kJ/mol	Joback Method
log10ws	-1.77		Crippen Method
logp	1.947		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3269.04	kPa	Joback Method
tb	363.02	K	Joback Method
tc	543.53	K	Joback Method
tf	146.61	K	Joback Method
vc	0.371	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	167.74	J/mol×K	363.02	Joback Method
cpg	178.06	J/mol×K	393.11	Joback Method
cpg	187.99	J/mol×K	423.19	Joback Method
cpg	197.55	J/mol×K	453.28	Joback Method
cpg	206.73	J/mol×K	483.36	Joback Method
cpg	215.56	J/mol×K	513.45	Joback Method
cpg	224.04	J/mol×K	543.53	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C26578814&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
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