2-Methoxy-4-methyl-1-pentene

Inchi: InChI=1S/C7H14O/c1-6(2)5-7(3)8-4/h6H,3,5H2,1-2,4H3
InchiKey: UMNBAOUYVWEPKA-UHFFFAOYSA-N
Formula: C7H14O
SMILES: C=C(CC(C)C)OC
Mol. weight [g/mol]: 114.19
CAS: 53119-71-4

Physical Properties

Property code	Value	Unit	Source
gf	-20.09	kJ/mol	Joback Method
hf	-209.67	kJ/mol	Joback Method
hfus	8.96	kJ/mol	Joback Method
hvap	32.61	kJ/mol	Joback Method
log10ws	-1.95		Crippen Method
logp	2.193		Crippen Method
mcvol	111.060	ml/mol	McGowan Method
pc	2915.53	kPa	Joback Method
tb	378.10	K	Joback Method
tc	553.18	K	Joback Method
tf	160.16	K	Joback Method
vc	0.421	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.01	J/mol×K	378.10	Joback Method
cpg	215.47	J/mol×K	407.28	Joback Method
cpg	226.53	J/mol×K	436.46	Joback Method
cpg	237.21	J/mol×K	465.64	Joback Method
cpg	247.50	J/mol×K	494.82	Joback Method
cpg	257.42	J/mol×K	524.00	Joback Method
cpg	266.97	J/mol×K	553.18	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=C53119714&Units=SI

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