Pentane, 3-methoxy-

Other names: 1-Ethylpropyl methyl ether
Inchi: InChI=1S/C6H14O/c1-4-6(5-2)7-3/h6H,4-5H2,1-3H3
InchiKey: CQRFEDVNTJTKFU-UHFFFAOYSA-N
Formula: C6H14O
SMILES: CCC(CC)OC
Mol. weight [g/mol]: 102.17
CAS: 36839-67-5

Physical Properties

Property code	Value	Unit	Source
gf	-107.80	kJ/mol	Joback Method
hf	-304.67	kJ/mol	Joback Method
hfus	8.96	kJ/mol	Joback Method
hvap	30.97	kJ/mol	Joback Method
log10ws	-1.53		Crippen Method
logp	1.821		Crippen Method
mcvol	101.270	ml/mol	McGowan Method
pc	3076.16	kPa	Joback Method
tb	358.66	K	Joback Method
tc	527.06	K	Joback Method
tf	164.61	K	Joback Method
vc	0.384	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	181.69	J/mol×K	358.66	Joback Method
cpg	192.17	J/mol×K	386.73	Joback Method
cpg	202.35	J/mol×K	414.79	Joback Method
cpg	212.24	J/mol×K	442.86	Joback Method
cpg	221.82	J/mol×K	470.92	Joback Method
cpg	231.12	J/mol×K	498.99	Joback Method
cpg	240.11	J/mol×K	527.06	Joback Method
dvisc	0.0064749	Pa×s	164.61	Joback Method

dvisc	0.0023051	Pa×s	196.95	Joback Method
dvisc	0.0010982	Pa×s	229.29	Joback Method
dvisc	0.0006285	Pa×s	261.63	Joback Method
dvisc	0.0004067	Pa×s	293.98	Joback Method
dvisc	0.0002868	Pa×s	326.32	Joback Method
dvisc	0.0002155	Pa×s	358.66	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=C36839675&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