Methyl ethyl cyclopentene

Other names: 1-Ethyl-2-methylcyclopentene
Cyclopentene, 1-ethyl-2-methyl-
Inchi: InChI=1S/C8H14/c1-3-8-6-4-5-7(8)2/h3-6H2,1-2H3
InchiKey: MMYZGQDXYZNAQW-UHFFFAOYSA-N
Formula: C8H14
SMILES: CCC1=C(C)CCC1
Mol. weight [g/mol]: 110.20
CAS: 19780-56-4

Physical Properties

Property code	Value	Unit	Source
gf	71.44	kJ/mol	Joback Method
hf	-92.79	kJ/mol	Joback Method
hfus	9.78	kJ/mol	Joback Method
hvap	35.58	kJ/mol	Joback Method
log10ws	-2.92		Crippen Method
logp	2.897		Crippen Method
mcvol	108.420	ml/mol	McGowan Method
pc	3202.78	kPa	Joback Method
tb	411.51	K	Joback Method
tc	609.80	K	Joback Method
tf	220.86	K	Joback Method
vc	0.411	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	204.62	J/mol×K	411.51	Joback Method
cpg	218.58	J/mol×K	444.56	Joback Method
cpg	231.87	J/mol×K	477.61	Joback Method
cpg	244.51	J/mol×K	510.65	Joback Method
cpg	256.53	J/mol×K	543.70	Joback Method
cpg	267.96	J/mol×K	576.75	Joback Method
cpg	278.81	J/mol×K	609.80	Joback Method

dvisc	0.0023108	Pa×s	220.86	Joback Method
dvisc	0.0012898	Pa×s	252.64	Joback Method
dvisc	0.0008200	Pa×s	284.41	Joback Method
dvisc	0.0005711	Pa×s	316.19	Joback Method
dvisc	0.0004249	Pa×s	347.96	Joback Method
dvisc	0.0003321	Pa×s	379.74	Joback Method
dvisc	0.0002697	Pa×s	411.51	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19780564&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
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