Cyclopentene, 3-ethylidene-1-methyl-

Other names: 3-ethylidene-1-methylcyclopentene
Inchi: InChI=1S/C8H12/c1-3-8-5-4-7(2)6-8/h3,6H,4-5H2,1-2H3/b8-3+
InchiKey: KNMRUIAIEAZNRY-FPYGCLRLSA-N
Formula: C8H12
SMILES: CC=C1C=C(C)CC1
Mol. weight [g/mol]: 108.18
CAS: 62338-00-5

Physical Properties

Property code	Value	Unit	Source
gf	126.53	kJ/mol	Joback Method
hf	-5.29	kJ/mol	Joback Method
hfus	10.50	kJ/mol	Joback Method
hvap	35.71	kJ/mol	Joback Method
log10ws	-2.77		Crippen Method
logp	2.673		Crippen Method
mcvol	104.120	ml/mol	McGowan Method
pc	3368.44	kPa	Joback Method
ripol	1195.00		NIST Webbook
ripol	1207.00		NIST Webbook
ripol	1163.00		NIST Webbook
ripol	1163.00		NIST Webbook
ripol	1168.00		NIST Webbook
ripol	1178.00		NIST Webbook
tb	413.17	K	Joback Method
tc	617.70	K	Joback Method
tf	218.70	K	Joback Method
vc	0.395	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	190.45	J/mol×K	413.17	Joback Method
cpg	249.57	J/mol×K	583.61	Joback Method

cpg	239.05	J/mol×K	549.52	Joback Method
cpg	227.90	J/mol×K	515.43	Joback Method
cpg	216.11	J/mol×K	481.35	Joback Method
cpg	203.63	J/mol×K	447.26	Joback Method
cpg	259.52	J/mol×K	617.70	Joback Method
dvisc	0.0002392	Pa×s	413.17	Joback Method
dvisc	0.0002917	Pa×s	380.76	Joback Method
dvisc	0.0003693	Pa×s	348.35	Joback Method
dvisc	0.0004905	Pa×s	315.93	Joback Method
dvisc	0.0006953	Pa×s	283.52	Joback Method
dvisc	0.0010785	Pa×s	251.11	Joback Method
dvisc	0.0019054	Pa×s	218.70	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C62338005&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume