1,2-Dipropylcyclopropene

Other names: Cyclopropene, 1,2-dipropyl-
Inchi: InChI=1S/C9H16/c1-3-5-8-7-9(8)6-4-2/h3-7H2,1-2H3
InchiKey: TVBQLZJTSQWOGF-UHFFFAOYSA-N
Formula: C9H16
SMILES: CCCC1=C(CCC)C1
Mol. weight [g/mol]: 124.22
CAS: 10306-92-0

Physical Properties

Property code	Value	Unit	Source
gf	104.06	kJ/mol	Joback Method
hf	-101.11	kJ/mol	Joback Method
hfus	16.57	kJ/mol	Joback Method
hvap	37.47	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	3.287		Crippen Method
mcvol	122.510	ml/mol	McGowan Method
pc	2732.56	kPa	Joback Method
tb	425.85	K	Joback Method
tc	607.37	K	Joback Method
tf	239.17	K	Joback Method
vc	0.483	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	247.56	J/mol×K	425.85	Joback Method
cpg	308.08	J/mol×K	577.12	Joback Method
cpg	297.14	J/mol×K	546.86	Joback Method
cpg	285.65	J/mol×K	516.61	Joback Method
cpg	273.58	J/mol×K	486.36	Joback Method
cpg	260.89	J/mol×K	456.10	Joback Method
cpg	318.49	J/mol×K	607.37	Joback Method
dvisc	0.0003477	Pa×s	425.85	Joback Method

dvisc	0.0003952	Pa×s	394.74	Joback Method
dvisc	0.0004591	Pa×s	363.62	Joback Method
dvisc	0.0005485	Pa×s	332.51	Joback Method
dvisc	0.0006798	Pa×s	301.40	Joback Method
dvisc	0.0008852	Pa×s	270.28	Joback Method
dvisc	0.0012348	Pa×s	239.17	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10306920&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