Cyclooctene, 1-isopropyl-

Inchi: InChI=1S/C11H20/c1-10(2)11-8-6-4-3-5-7-9-11/h8,10H,3-7,9H2,1-2H3/b11-8+
InchiKey: DGVMSXKFMBAVGO-DHZHZOJOSA-N
Formula: C11H20
SMILES: CC(C)C1=CCCCCCC1
Mol. weight [g/mol]: 152.28
CAS: 30718-64-0

Physical Properties

Property code	Value	Unit	Source
gf	67.59	kJ/mol	Joback Method
hf	-167.00	kJ/mol	Joback Method
hfus	8.12	kJ/mol	Joback Method
hvap	41.73	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.923		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2611.07	kPa	Joback Method
tb	487.54	K	Joback Method
tc	706.07	K	Joback Method
tf	216.59	K	Joback Method
vc	0.549	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.62	J/mol×K	487.54	Joback Method
cpg	353.73	J/mol×K	523.96	Joback Method
cpg	373.72	J/mol×K	560.38	Joback Method
cpg	392.61	J/mol×K	596.81	Joback Method
cpg	410.43	J/mol×K	633.23	Joback Method
cpg	427.20	J/mol×K	669.65	Joback Method
cpg	442.94	J/mol×K	706.07	Joback Method
dvisc	0.0271492	Pa×s	216.59	Joback Method
dvisc	0.0053645	Pa×s	261.75	Joback Method

dvisc	0.0017082	Pa×s	306.91	Joback Method
dvisc	0.0007295	Pa×s	352.06	Joback Method
dvisc	0.0003781	Pa×s	397.22	Joback Method
dvisc	0.0002241	Pa×s	442.38	Joback Method
dvisc	0.0001463	Pa×s	487.54	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C30718640&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