Cyclopent-3-enyl-cyclohexane

Inchi: InChI=1S/C11H18/c1-2-6-10(7-3-1)11-8-4-5-9-11/h4-5,10-11H,1-3,6-9H2
InchiKey: CSIKMWYVIPFJES-UHFFFAOYSA-N
Formula: C11H18
SMILES: C1=CCC(C2CCCCC2)C1
Mol. weight [g/mol]: 150.26

Physical Properties

Property code	Value	Unit	Source
gf	132.70	kJ/mol	Joback Method
hf	-97.79	kJ/mol	Joback Method
hfus	11.24	kJ/mol	Joback Method
hvap	41.06	kJ/mol	Joback Method
log10ws	-3.59		Crippen Method
logp	3.533		Crippen Method
mcvol	139.830	ml/mol	McGowan Method
pc	2912.39	kPa	Joback Method
rinpol	1170.00		NIST Webbook
rinpol	1204.00		NIST Webbook
tb	485.07	K	Joback Method
tc	714.76	K	Joback Method
tf	232.77	K	Joback Method
vc	0.511	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.77	J/mol×K	485.07	Joback Method
cpg	340.81	J/mol×K	523.35	Joback Method
cpg	362.39	J/mol×K	561.63	Joback Method
cpg	382.56	J/mol×K	599.92	Joback Method
cpg	401.39	J/mol×K	638.20	Joback Method
cpg	418.94	J/mol×K	676.48	Joback Method
cpg	435.25	J/mol×K	714.76	Joback Method
dvisc	0.0057733	Pa×s	232.77	Joback Method

dvisc	0.0024798	Pa×s	274.82	Joback Method
dvisc	0.0013329	Pa×s	316.87	Joback Method
dvisc	0.0008286	Pa×s	358.92	Joback Method
dvisc	0.0005692	Pa×s	400.97	Joback Method
dvisc	0.0004198	Pa×s	443.02	Joback Method
dvisc	0.0003264	Pa×s	485.07	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R136393&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume