

4-Cyclopentyl-cyclohexene

Inchi:	InChI=1S/C11H18/c1-2-6-10(7-3-1)11-8-4-5-9-11/h1-2,10-11H,3-9H2
InchiKey:	FCVDDRKYHZIJSH-UHFFFAOYSA-N
Formula:	C11H18
SMILES:	C1=CCC(C2CCCC2)CC1
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
mvol	139.830	ml/mol	McGowan Method
pc	2912.39	kPa	Joback Method
rinpol	1192.00		NIST Webbook
rinpol	1227.00		NIST Webbook
tb	485.07	K	Joback Method
tc	714.76	K	Joback Method
tf	232.77	K	Joback Method
vc	0.511	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

dvisc	0.0024798	Paxs	274.82	Joback Method
dvisc	0.0013329	Paxs	316.87	Joback Method
dvisc	0.0008286	Paxs	358.92	Joback Method
dvisc	0.0005692	Paxs	400.97	Joback Method
dvisc	0.0004198	Paxs	443.02	Joback Method
dvisc	0.0003264	Paxs	485.07	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R136348&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

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