1,3-Cyclopentadiene, 2-hexyl

Inchi: InChI=1S/C11H18/c1-2-3-4-5-8-11-9-6-7-10-11/h6,9-10H,2-5,7-8H2,1H3
InchiKey: POPBPNUXNUXOIX-UHFFFAOYSA-N
Formula: C11H18
SMILES: CCCCCCC1=CCC=C1
Mol. weight [g/mol]: 150.26

Physical Properties

Property code	Value	Unit	Source
gf	136.29	kJ/mol	Joback Method
hf	-85.46	kJ/mol	Joback Method
hfus	19.17	kJ/mol	Joback Method
hvap	41.89	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.843		Crippen Method
mcvol	146.390	ml/mol	McGowan Method
pc	2490.03	kPa	Joback Method
rinpol	1107.00		NIST Webbook
ripol	1302.00		NIST Webbook
tb	474.33	K	Joback Method
tc	666.96	K	Joback Method
tf	242.91	K	Joback Method
vc	0.566	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	316.14	J/mol×K	474.33	Joback Method
cpg	332.41	J/mol×K	506.44	Joback Method
cpg	347.84	J/mol×K	538.54	Joback Method
cpg	362.47	J/mol×K	570.65	Joback Method
cpg	376.34	J/mol×K	602.75	Joback Method
cpg	389.47	J/mol×K	634.86	Joback Method
cpg	401.90	J/mol×K	666.96	Joback Method
dvisc	0.0033452	Pa×s	242.91	Joback Method

dvisc	0.0016415	Pa×s	281.48	Joback Method
dvisc	0.0009563	Pa×s	320.05	Joback Method
dvisc	0.0006258	Pa×s	358.62	Joback Method
dvisc	0.0004446	Pa×s	397.19	Joback Method
dvisc	0.0003356	Pa×s	435.76	Joback Method
dvisc	0.0002652	Pa×s	474.33	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=R40845&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
ripol: Polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume