1,3-Cyclopentadiene, 2-nonyl

Inchi: InChI=1S/C14H24/c1-2-3-4-5-6-7-8-11-14-12-9-10-13-14/h9,12-13H,2-8,10-11H2,1H3
InchiKey: PLRBIYJONOVZFE-UHFFFAOYSA-N
Formula: C14H24
SMILES: CCCCCCCCCC1=CCC=C1
Mol. weight [g/mol]: 192.34

Physical Properties

Property code	Value	Unit	Source
gf	161.55	kJ/mol	Joback Method
hf	-147.38	kJ/mol	Joback Method
hfus	26.93	kJ/mol	Joback Method
hvap	48.57	kJ/mol	Joback Method
log10ws	-5.28		Crippen Method
logp	5.013		Crippen Method
mcvol	188.660	ml/mol	McGowan Method
pc	1903.58	kPa	Joback Method
rinpol	1407.00		NIST Webbook
tb	542.97	K	Joback Method
tc	728.99	K	Joback Method
tf	276.72	K	Joback Method
vc	0.734	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	459.53	J/mol×K	542.97	Joback Method
cpg	477.79	J/mol×K	573.97	Joback Method
cpg	495.14	J/mol×K	604.98	Joback Method
cpg	511.62	J/mol×K	635.98	Joback Method
cpg	527.26	J/mol×K	666.99	Joback Method
cpg	542.11	J/mol×K	697.99	Joback Method
cpg	556.20	J/mol×K	728.99	Joback Method
dvisc	0.0034676	Pa×s	276.72	Joback Method
dvisc	0.0016034	Pa×s	321.10	Joback Method

dvisc	0.0008941	Pa×s	365.47	Joback Method
dvisc	0.0005658	Pa×s	409.85	Joback Method
dvisc	0.0003916	Pa×s	454.22	Joback Method
dvisc	0.0002893	Pa×s	498.60	Joback Method
dvisc	0.0002246	Pa×s	542.97	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R40859&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

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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