

1,3-Cyclopentadiene, 5-hexyl

Inchi:	InChI=1S/C11H18/c1-2-3-4-5-8-11-9-6-7-10-11/h6-7,9-11H,2-5,8H2,1H3
InchiKey:	PSNDKUWTDGITY-UHFFFAOYSA-N
Formula:	C11H18
SMILES:	CCCCCCC1C=CC=C1
Mol. weight [g/mol]:	150.26

Physical Properties

Property code	Value	Unit	Source
gf	138.21	kJ/mol	Joback Method
hf	-94.33	kJ/mol	Joback Method
hfus	20.62	kJ/mol	Joback Method
hvap	40.92	kJ/mol	Joback Method
log10ws	-3.79		Crippen Method
logp	3.699		Crippen Method
mcvol	146.390	ml/mol	McGowan Method
pc	2445.89	kPa	Joback Method
rinpol	1128.00		NIST Webbook
rinpol	1128.00		NIST Webbook
ripol	1339.10		NIST Webbook
tb	464.68	K	Joback Method
tc	655.74	K	Joback Method
tf	226.15	K	Joback Method
vc	0.565	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.21	J/molxK	464.68	Joback Method
cpg	391.96	J/molxK	623.90	Joback Method
cpg	378.22	J/molxK	592.06	Joback Method
cpg	363.70	J/molxK	560.21	Joback Method
cpg	348.38	J/molxK	528.37	Joback Method
cpg	332.23	J/molxK	496.52	Joback Method
cpg	404.98	J/molxK	655.74	Joback Method

dvisc	0.0002837	Paxs	464.68	Joback Method
dvisc	0.0003516	Paxs	424.93	Joback Method
dvisc	0.0004555	Paxs	385.17	Joback Method
dvisc	0.0006263	Paxs	345.42	Joback Method
dvisc	0.0009355	Paxs	305.66	Joback Method
dvisc	0.0015754	Paxs	265.91	Joback Method
dvisc	0.0031867	Paxs	226.15	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R40920&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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
mvol:	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

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