

n-Decyl-cyclopropane

Inchi:	InChI=1S/C13H26/c1-2-3-4-5-6-7-8-9-10-13-11-12-13/h13H,2-12H2,1H3
InchiKey:	APHMAJYFPDMASC-UHFFFAOYSA-N
Formula:	C13H26
SMILES:	CCCCCCCCCCC1CC1
Mol. weight [g/mol]:	182.35

Physical Properties

Property code	Value	Unit	Source
gf	119.33	kJ/mol	Joback Method
hf	-238.85	kJ/mol	Joback Method
hfus	27.56	kJ/mol	Joback Method
hvap	44.45	kJ/mol	Joback Method
log10ws	-4.92		Crippen Method
logp	4.927		Crippen Method
mcvol	183.170	ml/mol	McGowan Method
pc	1832.54	kPa	Joback Method
rinpol	1315.40		NIST Webbook
rinpol	1315.40		NIST Webbook
tb	503.58	K	Joback Method
tc	675.04	K	Joback Method
tf	254.21	K	Joback Method
vc	0.721	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	442.52	J/molxK	503.58	Joback Method
cpg	461.08	J/molxK	532.16	Joback Method
cpg	478.79	J/molxK	560.73	Joback Method
cpg	495.69	J/molxK	589.31	Joback Method
cpg	511.82	J/molxK	617.89	Joback Method
cpg	527.20	J/molxK	646.47	Joback Method
cpg	541.88	J/molxK	675.04	Joback Method
dvisc	0.0028977	Paxs	254.21	Joback Method

dvisc	0.0016501	Paxs	295.77	Joback Method
dvisc	0.0010795	Paxs	337.33	Joback Method
dvisc	0.0007751	Paxs	378.89	Joback Method
dvisc	0.0005942	Paxs	420.46	Joback Method
dvisc	0.0004778	Paxs	462.02	Joback Method
dvisc	0.0003983	Paxs	503.58	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R137925&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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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