

10-Undecenylcyclopentane

Inchi:	InChI=1S/C16H30/c1-2-3-4-5-6-7-8-9-10-13-16-14-11-12-15-16/h2,16H,1,3-15H2
InchiKey:	VGKGSWXTFBZEST-UHFFFAOYSA-N
Formula:	C16H30
SMILES:	C=CCCCCCCCCCC1CCCC1
Mol. weight [g/mol]:	222.41

Physical Properties

Property code	Value	Unit	Source
gf	208.23	kJ/mol	Joback Method
hf	-187.66	kJ/mol	Joback Method
hfus	29.85	kJ/mol	Joback Method
hvap	50.80	kJ/mol	Joback Method
log10ws	-6.03		Crippen Method
logp	5.873		Crippen Method
mcvol	221.140	ml/mol	McGowan Method
pc	1559.81	kPa	Joback Method
rinpol	1624.40		NIST Webbook
rinpol	1624.40		NIST Webbook
tb	577.44	K	Joback Method
tc	758.68	K	Joback Method
tf	279.22	K	Joback Method
vc	0.854	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	582.33	J/molxK	577.44	Joback Method
cpg	678.53	J/molxK	728.47	Joback Method
cpg	661.20	J/molxK	698.27	Joback Method
cpg	642.96	J/molxK	668.06	Joback Method
cpg	623.75	J/molxK	637.85	Joback Method
cpg	603.56	J/molxK	607.65	Joback Method
cpg	694.98	J/molxK	758.68	Joback Method
dvisc	0.0002180	Paxs	577.44	Joback Method

dvisc	0.0002859	Paxs	527.74	Joback Method
dvisc	0.0003968	Paxs	478.03	Joback Method
dvisc	0.0005941	Paxs	428.33	Joback Method
dvisc	0.0009889	Paxs	378.63	Joback Method
dvisc	0.0019202	Paxs	328.92	Joback Method
dvisc	0.0047221	Paxs	279.22	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R388915&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
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
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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