

Cyclohexene, 1-decyl-

Inchi:	InChI=1S/C16H30/c1-2-3-4-5-6-7-8-10-13-16-14-11-9-12-15-16/h14H,2-13,15H2,1H3
InchiKey:	VBLCDRFXWQTOOY-UHFFFAOYSA-N
Formula:	C16H30
SMILES:	CCCCCCCCC1=CCCCC1
Mol. weight [g/mol]:	222.41
CAS:	62338-41-4

Physical Properties

Property code	Value	Unit	Source
gf	136.33	kJ/mol	Joback Method
hf	-252.60	kJ/mol	Joback Method
hfus	28.79	kJ/mol	Joback Method
hvap	52.90	kJ/mol	Joback Method
log10ws	-6.27		Crippen Method
logp	6.018		Crippen Method
mcvol	221.140	ml/mol	McGowan Method
pc	1606.42	kPa	Joback Method
tb	593.84	K	Joback Method
tc	780.13	K	Joback Method
tf	294.98	K	Joback Method
vc	0.852	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	586.02	J/molxK	593.84	Joback Method
cpg	680.82	J/molxK	749.08	Joback Method
cpg	663.78	J/molxK	718.03	Joback Method
cpg	645.82	J/molxK	686.99	Joback Method
cpg	626.90	J/molxK	655.94	Joback Method
cpg	606.98	J/molxK	624.89	Joback Method
cpg	696.97	J/molxK	780.13	Joback Method
dvisc	0.0001433	Paxs	593.84	Joback Method
dvisc	0.0001963	Paxs	544.03	Joback Method

dvisc	0.0002865	Paxs	494.22	Joback Method
dvisc	0.0004552	Paxs	444.41	Joback Method
dvisc	0.0008130	Paxs	394.60	Joback Method
dvisc	0.0017170	Paxs	344.79	Joback Method
dvisc	0.0046674	Paxs	294.98	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C62338414&Units=SI

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

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