Cyclohexane, 1-decyl-2-methyl, cis

Inchi: InChI=1S/C17H34/c1-3-4-5-6-7-8-9-10-14-17-15-12-11-13-16(17)2/h16-17H,3-15H2,1-2H
InchiKey: VVIPGXSGFRNNAW-DLBZAZTESA-N
Formula: C17H34
SMILES: CCCCCCCCCCC1CCCCC1C
Mol. weight [g/mol]: 238.45

Physical Properties

Property code	Value	Unit	Source
gf	109.00	kJ/mol	Joback Method
hf	-360.23	kJ/mol	Joback Method
hfus	32.69	kJ/mol	Joback Method
hvap	53.56	kJ/mol	Joback Method
log10ws	-6.35		Crippen Method
logp	6.344		Crippen Method
mcvol	239.530	ml/mol	McGowan Method
pc	1394.37	kPa	Joback Method
rinpol	1713.00		NIST Webbook
tb	603.24	K	Joback Method
tc	784.96	K	Joback Method
tf	284.49	K	Joback Method
vc	0.919	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	662.67	J/mol×K	603.24	Joback Method
cpg	685.88	J/mol×K	633.53	Joback Method
cpg	707.99	J/mol×K	663.81	Joback Method
cpg	729.03	J/mol×K	694.10	Joback Method
cpg	749.04	J/mol×K	724.39	Joback Method
cpg	768.03	J/mol×K	754.68	Joback Method
cpg	786.03	J/mol×K	784.96	Joback Method
dvisc	0.0046878	Pa×s	284.49	Joback Method
dvisc	0.0017440	Pa×s	337.62	Joback Method

dvisc	0.0008489	Pa×s	390.74	Joback Method
dvisc	0.0004910	Pa×s	443.87	Joback Method
dvisc	0.0003192	Pa×s	496.99	Joback Method
dvisc	0.0002255	Pa×s	550.12	Joback Method
dvisc	0.0001694	Pa×s	603.24	Joback Method

Sources

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=R553738&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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