Cyclohexene, 1-nonyl-

Other names: 1-Nonyl-1-cyclohexene
Inchi: InChI=1S/C15H28/c1-2-3-4-5-6-7-9-12-15-13-10-8-11-14-15/h13H,2-12,14H2,1H3
InchiKey: GTEZIRITHHEDAC-UHFFFAOYSA-N
Formula: C15H28
SMILES: CCCCCCCCCC1=CCCCC1
Mol. weight [g/mol]: 208.38
CAS: 15232-88-9

Physical Properties

Property code	Value	Unit	Source
gf	127.91	kJ/mol	Joback Method
hf	-231.96	kJ/mol	Joback Method
hfus	26.20	kJ/mol	Joback Method
hvap	50.68	kJ/mol	Joback Method
log10ws	-5.85		Crippen Method
logp	5.627		Crippen Method
mcvol	207.050	ml/mol	McGowan Method
pc	1737.56	kPa	Joback Method
ripol	1680.00		NIST Webbook
ripol	1712.00		NIST Webbook
ripol	1716.00		NIST Webbook
ripol	1665.00		NIST Webbook
ripol	1685.00		NIST Webbook
ripol	1701.00		NIST Webbook
ripol	1697.00		NIST Webbook
ripol	1702.00		NIST Webbook
ripol	1680.00		NIST Webbook
ripol	1690.90		NIST Webbook
ripol	1696.90		NIST Webbook
ripol	1702.00		NIST Webbook
ripol	1685.00		NIST Webbook
ripol	1691.00		NIST Webbook
tb	570.96	K	Joback Method
tc	759.32	K	Joback Method
tf	283.71	K	Joback Method
vc	0.795	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	532.09	J/mol×K	570.96	Joback Method
cpg	552.70	J/mol×K	602.35	Joback Method
cpg	572.29	J/mol×K	633.75	Joback Method
cpg	590.90	J/mol×K	665.14	Joback Method
cpg	608.56	J/mol×K	696.53	Joback Method
cpg	625.30	J/mol×K	727.93	Joback Method
cpg	641.17	J/mol×K	759.32	Joback Method
dvisc	0.0050407	Pa×s	283.71	Joback Method
dvisc	0.0018707	Pa×s	331.59	Joback Method
dvisc	0.0008915	Pa×s	379.46	Joback Method
dvisc	0.0005016	Pa×s	427.34	Joback Method
dvisc	0.0003169	Pa×s	475.21	Joback Method
dvisc	0.0002178	Pa×s	523.09	Joback Method
dvisc	0.0001594	Pa×s	570.96	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=C15232889&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume