

Cyclohexene, 3-nonyl-

Other names:	3-Nonyl-1-cyclohexene
Inchi:	InChI=1S/C15H28/c1-2-3-4-5-6-7-9-12-15-13-10-8-11-14-15/h10,13,15H,2-9,11-12,14H2
InchiKey:	XSGZETBAMREIMI-UHFFFAOYSA-N
Formula:	C15H28
SMILES:	CCCCCCCCC1C=CCCC1
Mol. weight [g/mol]:	208.38
CAS:	15232-79-8

Physical Properties

Property code	Value	Unit	Source
gf	129.83	kJ/mol	Joback Method
hf	-240.83	kJ/mol	Joback Method
hfus	27.66	kJ/mol	Joback Method
hvap	49.70	kJ/mol	Joback Method
log10ws	-5.61		Crippen Method
logp	5.483		Crippen Method
mcvol	207.050	ml/mol	McGowan Method
pc	1711.78	kPa	Joback Method
ripol	1685.00		NIST Webbook
ripol	1723.00		NIST Webbook
ripol	1670.00		NIST Webbook
ripol	1691.00		NIST Webbook
ripol	1697.00		NIST Webbook
ripol	1718.00		NIST Webbook
ripol	1709.00		NIST Webbook
ripol	1691.10		NIST Webbook
ripol	1697.30		NIST Webbook
ripol	1703.40		NIST Webbook
ripol	1709.10		NIST Webbook
ripol	1685.00		NIST Webbook
ripol	1707.00		NIST Webbook
ripol	1703.00		NIST Webbook
tb	561.31	K	Joback Method
tc	748.48	K	Joback Method
tf	266.95	K	Joback Method
vc	0.794	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	531.46	J/mol×K	561.31	Joback Method
cpg	627.83	J/mol×K	717.29	Joback Method
cpg	610.52	J/mol×K	686.09	Joback Method
cpg	592.26	J/mol×K	654.90	Joback Method
cpg	573.02	J/mol×K	623.70	Joback Method
cpg	552.76	J/mol×K	592.51	Joback Method
cpg	644.22	J/mol×K	748.48	Joback Method
dvisc	0.0001840	Pa×s	561.31	Joback Method
dvisc	0.0002481	Pa×s	512.25	Joback Method
dvisc	0.0003564	Pa×s	463.19	Joback Method
dvisc	0.0005577	Pa×s	414.13	Joback Method
dvisc	0.0009846	Pa×s	365.07	Joback Method
dvisc	0.0020735	Pa×s	316.01	Joback Method
dvisc	0.0057417	Pa×s	266.95	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C15232798&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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