

n-Amylcyclohexane

Inchi:	InChI=1S/C11H22/c1-2-3-5-8-11-9-6-4-7-10-11/h11H,2-10H2,1H3
InchiKey:	HLTMUYBTNSVOFY-UHFFFAOYSA-N
Formula:	C11H22
SMILES:	CCCCC1CCCCC1
Mol. weight [g/mol]:	154.29
CAS:	29949-27-7

Physical Properties

Property code	Value	Unit	Source
gf	66.19	kJ/mol	Joback Method
hf	-216.05	kJ/mol	Joback Method
hfus	16.08	kJ/mol	Joback Method
hvap	40.51	kJ/mol	Joback Method
log10ws	-4.08		Crippen Method
logp	4.147		Crippen Method
mcvol	154.990	ml/mol	McGowan Method
pc	2336.03	kPa	Joback Method
tb	470.63	K	Joback Method
tc	665.19	K	Joback Method
tf	221.11	K	Joback Method
vc	0.585	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.62	J/mol×K	470.63	Joback Method
cpg	366.87	J/mol×K	503.06	Joback Method
cpg	386.16	J/mol×K	535.48	Joback Method
cpg	404.50	J/mol×K	567.91	Joback Method
cpg	421.93	J/mol×K	600.34	Joback Method
cpg	438.46	J/mol×K	632.77	Joback Method
cpg	454.14	J/mol×K	665.19	Joback Method
dvisc	0.0085082	Pa×s	221.11	Joback Method
dvisc	0.0029690	Pa×s	262.70	Joback Method

dvisc	0.0013815	Pa×s	304.28	Joback Method
dvisc	0.0007727	Pa×s	345.87	Joback Method
dvisc	0.0004896	Pa×s	387.46	Joback Method
dvisc	0.0003389	Pa×s	429.04	Joback Method
dvisc	0.0002504	Pa×s	470.63	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C29949277&Units=SI
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

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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