

# Cyclohexane, 1-(1-tetradecylpentadecyl)-

<b>Other names:</b>	15-Cyclohexylnonacosane
<b>Inchi:</b>	InChI=1S/C35H70/c1-3-5-7-9-11-13-15-17-19-21-23-26-30-34(35-32-28-25-29-33-35)31-
<b>InchiKey:</b>	AIJFZFPWACJMNR-UHFFFAOYSA-N
<b>Formula:</b>	C35H70
<b>SMILES:</b>	CCCCCCCCCCCCCCCC(CCCCCCCCCCCCCCCC)C1CCCCC1
<b>Mol. weight [g/mol]:</b>	490.93
<b>CAS:</b>	55521-27-2

## Physical Properties

Property code	Value	Unit	Source
gf	265.83	kJ/mol	Joback Method
hf	-716.69	kJ/mol	Joback Method
hfus	74.72	kJ/mol	Joback Method
hvap	93.55	kJ/mol	Joback Method
log10ws	-13.88		Crippen Method
logp	13.365		Crippen Method
mcvol	493.150	ml/mol	McGowan Method
pc	524.85	kPa	Joback Method
tb	1019.31	K	Joback Method
tc	1268.71	K	Joback Method
tf	285.75 ± 0.50	K	NIST Webbook
vc	1.923	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1973.83	J/mol×K	1268.71	Joback Method
cpg	1825.25	J/mol×K	1019.31	Joback Method
cpg	1855.00	J/mol×K	1060.88	Joback Method
cpg	1882.51	J/mol×K	1102.44	Joback Method
cpg	1907.97	J/mol×K	1144.01	Joback Method
cpg	1931.56	J/mol×K	1185.58	Joback Method
cpg	1953.46	J/mol×K	1227.15	Joback Method
dvisc	0.0000104	Paxs	1019.31	Joback Method

dvisc	0.0007008	Paxs	476.59	Joback Method
dvisc	0.0001986	Paxs	567.04	Joback Method
dvisc	0.0000796	Paxs	657.50	Joback Method
dvisc	0.0000398	Paxs	747.95	Joback Method
dvisc	0.0000231	Paxs	838.40	Joback Method
dvisc	0.0000149	Paxs	928.86	Joback Method
hvapt	129.00	kJ/mol	564.50	NIST Webbook

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C55521272&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C55521272&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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