

# Heneicosane, 11-cyclopentyl-

<b>Other names:</b>	Cyclopentane, (1-decylundecyl)- 11-Cyclopentylheneicosane
<b>Inchi:</b>	InChI=1S/C26H52/c1-3-5-7-9-11-13-15-17-21-25(26-23-19-20-24-26)22-18-16-14-12-10
<b>InchiKey:</b>	LEQBWYDHNLNLMED-UHFFFAOYSA-N
<b>Formula:</b>	C26H52
<b>SMILES:</b>	CCCCCCCCCCC(CCCCCCCCCC)C1CCCC1
<b>Mol. weight [g/mol]:</b>	364.69
<b>CAS:</b>	6703-81-7

## Physical Properties

Property code	Value	Unit	Source
gf	202.15	kJ/mol	Joback Method
hf	-524.77	kJ/mol	Joback Method
hfus	53.51	kJ/mol	Joback Method
hvap	73.34	kJ/mol	Joback Method
log10ws	-10.12		Crippen Method
logp	9.854		Crippen Method
mvol	366.340	ml/mol	McGowan Method
pc	804.33	kPa	Joback Method
rinpol	2548.00		NIST Webbook
tb	809.12	K	Joback Method
tc	993.11	K	Joback Method
tf	260.50 ± 1.50	K	NIST Webbook
tf	260.50 ± 1.50	K	NIST Webbook
tf	260.45 ± 0.50	K	NIST Webbook
vc	1.427	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1340.50	J/mol×K	993.11	Joback Method
cpg	1212.78	J/mol×K	809.12	Joback Method
cpg	1237.03	J/mol×K	839.78	Joback Method
cpg	1260.02	J/mol×K	870.45	Joback Method

cpg	1281.80	J/mol×K	901.11	Joback Method
cpg	1302.44	J/mol×K	931.78	Joback Method
cpg	1321.98	J/mol×K	962.44	Joback Method
dvisc	0.0000594	Paxs	809.12	Joback Method
dvisc	0.0026650	Paxs	378.68	Joback Method
dvisc	0.0008534	Paxs	450.42	Joback Method
dvisc	0.0003737	Paxs	522.16	Joback Method
dvisc	0.0001998	Paxs	593.90	Joback Method
dvisc	0.0001222	Paxs	665.64	Joback Method
dvisc	0.0000823	Paxs	737.38	Joback Method
hvapt	92.40	kJ/mol	505.00	NIST Webbook

## Sources

<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=C6703817&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6703817&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>rinpol:</b>	Non-polar retention indices
<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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