

# 5,9,15-trimethylnonacosane

**Inchi:** InChI=1S/C32H66/c1-6-8-10-11-12-13-14-15-16-17-18-20-25-31(4)26-21-19-22-27-32(5)  
**InchiKey:** AUCMITVYPPSDGR-UHFFFAOYSA-N  
**Formula:** C32H66  
**SMILES:** CCCCCCCCCCCCCC(C)CCCCC(C)CCCC(C)CCCC  
**Mol. weight [g/mol]:** 450.87

## Physical Properties

Property code	Value	Unit	Source
gf	211.24	kJ/mol	Joback Method
hf	-719.65	kJ/mol	Joback Method
hfus	68.07	kJ/mol	Joback Method
hvap	85.66	kJ/mol	Joback Method
log10ws	-12.49		Crippen Method
logp	12.297		Crippen Method
mcvol	461.740	ml/mol	McGowan Method
pc	549.49	kPa	Joback Method
rinpol	3009.00		NIST Webbook
rinpol	3009.00		NIST Webbook
tb	930.24	K	Joback Method
tc	1150.49	K	Joback Method
tf	405.40	K	Joback Method
vc	1.810	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1618.98	J/molxK	930.24	Joback Method
cpg	1647.60	J/molxK	966.95	Joback Method
cpg	1674.45	J/molxK	1003.66	Joback Method
cpg	1699.63	J/molxK	1040.36	Joback Method
cpg	1723.25	J/molxK	1077.07	Joback Method
cpg	1745.43	J/molxK	1113.78	Joback Method
cpg	1766.27	J/molxK	1150.49	Joback Method
dvisc	0.0016243	Paxs	405.40	Joback Method

dvisc	0.0003607	Paxs	492.87	Joback Method
dvisc	0.0001261	Paxs	580.35	Joback Method
dvisc	0.0000581	Paxs	667.82	Joback Method
dvisc	0.0000320	Paxs	755.29	Joback Method
dvisc	0.0000199	Paxs	842.77	Joback Method
dvisc	0.0000136	Paxs	930.24	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R280356&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R280356&amp;Units=SI</a>
<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>

## 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>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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