

# Heneicosane, 2,6,10,15-tetramethyl

<b>Inchi:</b>	InChI=1S/C25H52/c1-7-8-9-10-16-23(4)17-11-12-18-24(5)20-14-21-25(6)19-13-15-22(2)
<b>InchiKey:</b>	VGVLUMQROZSZFT-UHFFFAOYSA-N
<b>Formula:</b>	C25H52
<b>SMILES:</b>	CCCCCCC(C)CCCC(C)CCCC(C)CCCC(C)C
<b>Mol. weight [g/mol]:</b>	352.68

## Physical Properties

Property code	Value	Unit	Source
gf	149.86	kJ/mol	Joback Method
hf	-580.45	kJ/mol	Joback Method
hfus	46.41	kJ/mol	Joback Method
hvap	69.69	kJ/mol	Joback Method
log10ws	-9.32		Crippen Method
logp	9.422		Crippen Method
mvol	363.110	ml/mol	McGowan Method
pc	777.64	kPa	Joback Method
rinpol	2203.00		NIST Webbook
rinpol	2268.00		NIST Webbook
tb	769.64	K	Joback Method
tc	945.01	K	Joback Method
tf	311.51	K	Joback Method
vc	1.411	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1153.05	J/molxK	769.64	Joback Method
cpg	1176.76	J/molxK	798.87	Joback Method
cpg	1199.33	J/molxK	828.10	Joback Method
cpg	1220.80	J/molxK	857.33	Joback Method
cpg	1241.22	J/molxK	886.55	Joback Method
cpg	1260.62	J/molxK	915.78	Joback Method
cpg	1279.06	J/molxK	945.01	Joback Method
dvisc	0.0078404	Paxs	311.51	Joback Method

dvisc	0.0013230	Paxs	387.87	Joback Method
dvisc	0.0004009	Paxs	464.22	Joback Method
dvisc	0.0001702	Paxs	540.58	Joback Method
dvisc	0.0000893	Paxs	616.93	Joback Method
dvisc	0.0000540	Paxs	693.29	Joback Method
dvisc	0.0000361	Paxs	769.64	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R47429&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R47429&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>mccvol:</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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