

# 3,3-Diethylhenicosane

Inchi:	InChI=1S/C25H52/c1-5-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25(6-2,7-3)8-4
InchiKey:	IDBKILMJNGMDCE-UHFFFAOYSA-N
Formula:	C25H52
SMILES:	CCCCCCCCCCCCCCCCCCC(CC)(CC)CC
Mol. weight [g/mol]:	352.68

## Physical Properties

Property code	Value	Unit	Source
gf	162.46	kJ/mol	Joback Method
hf	-568.08	kJ/mol	Joback Method
hfus	53.09	kJ/mol	Joback Method
hvap	69.95	kJ/mol	Joback Method
log10ws	-10.05		Crippen Method
logp	9.854		Crippen Method
mcvol	363.110	ml/mol	McGowan Method
pc	772.03	kPa	Joback Method
rinsol	2469.00		NIST Webbook
tb	768.17	K	Joback Method
tc	942.43	K	Joback Method
tf	373.93	K	Joback Method
vc	1.425	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1152.23	J/molxK	768.17	Joback Method
cpg	1258.30	J/molxK	913.39	Joback Method
cpg	1239.07	J/molxK	884.35	Joback Method
cpg	1218.90	J/molxK	855.30	Joback Method
cpg	1197.74	J/molxK	826.26	Joback Method
cpg	1175.54	J/molxK	797.21	Joback Method
cpg	1276.64	J/molxK	942.43	Joback Method
dvisc	0.0000409	Paxs	768.17	Joback Method
dvisc	0.0000583	Paxs	702.46	Joback Method

dvisc	0.0000893	Paxs	636.76	Joback Method
dvisc	0.0001510	Paxs	571.05	Joback Method
dvisc	0.0002925	Paxs	505.34	Joback Method
dvisc	0.0006908	Paxs	439.64	Joback Method
dvisc	0.0022059	Paxs	373.93	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R415166&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R415166&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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