

# 3,13-dimethyl-tricosane

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

## Physical Properties

Property code	Value	Unit	Source
gf	154.74	kJ/mol	Joback Method
hf	-569.89	kJ/mol	Joback Method
hfus	53.46	kJ/mol	Joback Method
hvap	70.47	kJ/mol	Joback Method
log10ws	-9.80		Crippen Method
logp	9.710		Crippen Method
mcvol	363.110	ml/mol	McGowan Method
pc	770.75	kPa	Joback Method
rinpol	2405.00		NIST Webbook
rinpol	2410.00		NIST Webbook
rinpol	2405.00		NIST Webbook
tb	770.52	K	Joback Method
tc	944.69	K	Joback Method
tf	341.51	K	Joback Method
vc	1.423	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1152.28	J/molxK	770.52	Joback Method
cpg	1175.79	J/molxK	799.55	Joback Method
cpg	1198.20	J/molxK	828.58	Joback Method
cpg	1219.55	J/molxK	857.60	Joback Method
cpg	1239.86	J/molxK	886.63	Joback Method
cpg	1259.20	J/molxK	915.66	Joback Method
cpg	1277.59	J/molxK	944.69	Joback Method

dvisc	0.0037128	Paxs	341.51	Joback Method
dvisc	0.0009256	Paxs	413.01	Joback Method
dvisc	0.0003477	Paxs	484.51	Joback Method
dvisc	0.0001680	Paxs	556.01	Joback Method
dvisc	0.0000958	Paxs	627.52	Joback Method
dvisc	0.0000613	Paxs	699.02	Joback Method
dvisc	0.0000426	Paxs	770.52	Joback Method

## Sources

<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=R404567&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R404567&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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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