

# Docosane, 2,6,10,14,19-pentamethyl

<b>Inchi:</b>	InChI=1S/C27H56/c1-8-14-24(4)16-9-10-17-25(5)19-12-21-27(7)22-13-20-26(6)18-11-15
<b>InchiKey:</b>	MJNJBZFDHNXQQT-UHFFFAOYSA-N
<b>Formula:</b>	C27H56
<b>SMILES:</b>	CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)C
<b>Mol. weight [g/mol]:</b>	380.73

## Physical Properties

Property code	Value	Unit	Source
gf	164.26	kJ/mol	Joback Method
hf	-627.01	kJ/mol	Joback Method
hfus	48.07	kJ/mol	Joback Method
hvap	73.76	kJ/mol	Joback Method
log10ws	-9.92		Crippen Method
logp	10.058		Crippen Method
mcvol	391.290	ml/mol	McGowan Method
pc	703.59	kPa	Joback Method
rinsol	2391.00		NIST Webbook
tb	814.96	K	Joback Method
tc	998.15	K	Joback Method
tf	319.05	K	Joback Method
vc	1.518	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1283.71	J/molxK	814.96	Joback Method
cpg	1308.40	J/molxK	845.49	Joback Method
cpg	1331.82	J/molxK	876.02	Joback Method
cpg	1354.03	J/molxK	906.55	Joback Method
cpg	1375.07	J/molxK	937.09	Joback Method
cpg	1395.00	J/molxK	967.62	Joback Method
cpg	1413.86	J/molxK	998.15	Joback Method
dvisc	0.0081580	Paxs	319.05	Joback Method
dvisc	0.0011472	Paxs	401.70	Joback Method

dvisc	0.0003151	Paxs	484.35	Joback Method
dvisc	0.0001261	Paxs	567.00	Joback Method
dvisc	0.0000637	Paxs	649.66	Joback Method
dvisc	0.0000376	Paxs	732.31	Joback Method
dvisc	0.0000247	Paxs	814.96	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R213891&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R213891&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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