

# Pentacosane, 3,7,11,15,19,23-hexamethyl

<b>Inchi:</b>	InChI=1S/C31H64/c1-9-26(3)16-11-18-28(5)20-13-22-30(7)24-15-25-31(8)23-14-21-29(6)
<b>InchiKey:</b>	AKISOWOTUZRCRK-UHFFFAOYSA-N
<b>Formula:</b>	C31H64
<b>SMILES:</b>	CCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CC
<b>Mol. weight [g/mol]:</b>	436.84

## Physical Properties

Property code	Value	Unit	Source
gf	195.50	kJ/mol	Joback Method
hf	-714.85	kJ/mol	Joback Method
hfus	54.91	kJ/mol	Joback Method
hvap	82.27	kJ/mol	Joback Method
log10ws	-11.35		Crippen Method
logp	11.474		Crippen Method
mcvol	447.650	ml/mol	McGowan Method
pc	581.76	kPa	Joback Method
rinsol	2734.00		NIST Webbook
tb	906.04	K	Joback Method
tc	1112.65	K	Joback Method
tf	349.13	K	Joback Method
vc	1.736	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1551.78	J/molxK	906.04	Joback Method
cpg	1578.85	J/molxK	940.48	Joback Method
cpg	1604.30	J/molxK	974.91	Joback Method
cpg	1628.22	J/molxK	1009.35	Joback Method
cpg	1650.71	J/molxK	1043.78	Joback Method
cpg	1671.84	J/molxK	1078.22	Joback Method
cpg	1691.70	J/molxK	1112.65	Joback Method
dvisc	0.0053237	Paxs	349.13	Joback Method
dvisc	0.0006656	Paxs	441.95	Joback Method

dvisc	0.0001713	Paxs	534.77	Joback Method
dvisc	0.0000659	Paxs	627.59	Joback Method
dvisc	0.0000324	Paxs	720.40	Joback Method
dvisc	0.0000187	Paxs	813.22	Joback Method
dvisc	0.0000121	Paxs	906.04	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R215500&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R215500&amp;Units=SI</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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