

# 2,4,8-Trimethyloctacosane

<b>Inchi:</b>	InChI=1S/C31H64/c1-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-25-30(4)26-2
<b>InchiKey:</b>	IGPUWVREM UWCLK-UHFFFAOYSA-N
<b>Formula:</b>	C31H64
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CC(C)C
<b>Mol. weight [g/mol]:</b>	436.84

## Physical Properties

Property code	Value	Unit	Source
gf	202.82	kJ/mol	Joback Method
hf	-699.01	kJ/mol	Joback Method
hfus	65.48	kJ/mol	Joback Method
hvap	83.44	kJ/mol	Joback Method
log10ws	-12.07		Crippen Method
logp	11.907		Crippen Method
mcvol	447.650	ml/mol	McGowan Method
pc	575.08	kPa	Joback Method
rinsol	2918.00		NIST Webbook
tb	907.36	K	Joback Method
tc	1117.94	K	Joback Method
tf	394.13	K	Joback Method
vc	1.754	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1550.80	J/molxK	907.36	Joback Method
cpg	1578.45	J/molxK	942.46	Joback Method
cpg	1604.45	J/molxK	977.55	Joback Method
cpg	1628.91	J/molxK	1012.65	Joback Method
cpg	1651.91	J/molxK	1047.75	Joback Method
cpg	1673.55	J/molxK	1082.84	Joback Method
cpg	1693.92	J/molxK	1117.94	Joback Method
dvisc	0.0019270	Paxs	394.13	Joback Method
dvisc	0.0004246	Paxs	479.67	Joback Method

dvisc	0.0001479	Paxs	565.21	Joback Method
dvisc	0.0000680	Paxs	650.75	Joback Method
dvisc	0.0000374	Paxs	736.28	Joback Method
dvisc	0.0000233	Paxs	821.82	Joback Method
dvisc	0.0000159	Paxs	907.36	Joback Method

## Sources

<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=R505274&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R505274&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>

## 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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