

# 5,9,13-Trimethylpentacosane

<b>Inchi:</b>	InChI=1S/C28H58/c1-6-8-10-11-12-13-14-15-16-17-21-27(4)23-19-25-28(5)24-18-22-26
<b>InchiKey:</b>	BQAYZLGGCABOEF-UHFFFAOYSA-N
<b>Formula:</b>	C28H58
<b>SMILES:</b>	CCCCCCCCCCCC(C)CCCC(C)CCCC(C)CCCC
<b>Mol. weight [g/mol]:</b>	394.76

## Physical Properties

Property code	Value	Unit	Source
gf	177.56	kJ/mol	Joback Method
hf	-637.09	kJ/mol	Joback Method
hfus	57.71	kJ/mol	Joback Method
hvap	76.76	kJ/mol	Joback Method
log10ws	-10.82		Crippen Method
logp	10.736		Crippen Method
mcvol	405.380	ml/mol	McGowan Method
pc	663.57	kPa	Joback Method
rinpol	2610.00		NIST Webbook
rinpol	2610.00		NIST Webbook
rinpol	2610.00		NIST Webbook
tb	838.72	K	Joback Method
tc	1027.12	K	Joback Method
tf	360.32	K	Joback Method
vc	1.585	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1349.09	J/molxK	838.72	Joback Method
cpg	1462.80	J/molxK	995.72	Joback Method
cpg	1442.47	J/molxK	964.32	Joback Method
cpg	1421.00	J/molxK	932.92	Joback Method
cpg	1398.31	J/molxK	901.52	Joback Method
cpg	1374.36	J/molxK	870.12	Joback Method
cpg	1482.05	J/molxK	1027.12	Joback Method

dvisc	0.0000252	Paxs	838.72	Joback Method
dvisc	0.0000370	Paxs	758.99	Joback Method
dvisc	0.0000593	Paxs	679.25	Joback Method
dvisc	0.0001080	Paxs	599.52	Joback Method
dvisc	0.0002364	Paxs	519.79	Joback Method
dvisc	0.0006870	Paxs	440.05	Joback Method
dvisc	0.0032013	Paxs	360.32	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=R505650&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R505650&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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