

# Heptacosane, 3,7,13-trimethyl

<b>Inchi:</b>	InChI=1S/C30H62/c1-6-8-9-10-11-12-13-14-15-16-17-19-23-29(4)24-20-18-21-25-30(5)2
<b>InchiKey:</b>	UVTWGOLUQLLRED-UHFFFAOYSA-N
<b>Formula:</b>	C30H62
<b>SMILES:</b>	CCCCCCCCCCCCCCC(C)CCCCC(C)CCCC(C)CC
<b>Mol. weight [g/mol]:</b>	422.81

## Physical Properties

Property code	Value	Unit	Source
gf	194.40	kJ/mol	Joback Method
hf	-678.37	kJ/mol	Joback Method
hfus	62.89	kJ/mol	Joback Method
hvap	81.21	kJ/mol	Joback Method
log10ws	-11.66		Crippen Method
logp	11.517		Crippen Method
mcvol	433.560	ml/mol	McGowan Method
pc	602.50	kPa	Joback Method
rinpol	2840.00		NIST Webbook
rinpol	2840.00		NIST Webbook
tb	884.48	K	Joback Method
tc	1086.59	K	Joback Method
tf	382.86	K	Joback Method
vc	1.698	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1483.06	J/molxK	884.48	Joback Method
cpg	1602.47	J/molxK	1052.90	Joback Method
cpg	1581.31	J/molxK	1019.22	Joback Method
cpg	1558.87	J/molxK	985.53	Joback Method
cpg	1535.07	J/molxK	951.85	Joback Method
cpg	1509.83	J/molxK	918.16	Joback Method
cpg	1622.43	J/molxK	1086.59	Joback Method
dvisc	0.0000186	Paxs	884.48	Joback Method

dvisc	0.0000272	Paxs	800.88	Joback Method
dvisc	0.0000437	Paxs	717.27	Joback Method
dvisc	0.0000795	Paxs	633.67	Joback Method
dvisc	0.0001732	Paxs	550.07	Joback Method
dvisc	0.0004992	Paxs	466.46	Joback Method
dvisc	0.0022843	Paxs	382.86	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=R195218&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R195218&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>mccvol:</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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