

# Tricosane, 2,6,10,14,18-pentamethyl

<b>Inchi:</b>	InChI=1S/C28H58/c1-8-9-10-16-25(4)18-12-20-27(6)22-14-23-28(7)21-13-19-26(5)17-11
<b>InchiKey:</b>	HVOSWHGKDMEVNU-UHFFFAOYSA-N
<b>Formula:</b>	C28H58
<b>SMILES:</b>	CCCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)C
<b>Mol. weight [g/mol]:</b>	394.76

## Physical Properties

Property code	Value	Unit	Source
gf	172.68	kJ/mol	Joback Method
hf	-647.65	kJ/mol	Joback Method
hfus	50.66	kJ/mol	Joback Method
hvap	75.98	kJ/mol	Joback Method
log10ws	-10.33		Crippen Method
logp	10.448		Crippen Method
mcvol	405.380	ml/mol	McGowan Method
pc	669.08	kPa	Joback Method
rinpol	2470.00		NIST Webbook
rinpol	2470.00		NIST Webbook
rinpol	2470.00		NIST Webbook
rinpol	2470.00		NIST Webbook
rinpol	2470.00		NIST Webbook
tb	837.84	K	Joback Method
tc	1025.75	K	Joback Method
tf	330.32	K	Joback Method
vc	1.573	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1349.84	J/molxK	837.84	Joback Method
cpg	1463.09	J/molxK	994.43	Joback Method
cpg	1442.88	J/molxK	963.11	Joback Method
cpg	1421.51	J/molxK	931.80	Joback Method
cpg	1398.92	J/molxK	900.48	Joback Method

cpg	1375.05	J/molxK	869.16	Joback Method
cpg	1482.20	J/molxK	1025.75	Joback Method
dvisc	0.0000212	Paxs	837.84	Joback Method
dvisc	0.0000322	Paxs	753.25	Joback Method
dvisc	0.0000546	Paxs	668.67	Joback Method
dvisc	0.0001077	Paxs	584.08	Joback Method
dvisc	0.0002673	Paxs	499.49	Joback Method
dvisc	0.0009612	Paxs	414.91	Joback Method
dvisc	0.0066589	Paxs	330.32	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=R213866&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R213866&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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