

# Tetracosane, 3,7,11,15,19-pentamethyl

<b>Inchi:</b>	InChI=1S/C29H60/c1-8-10-11-16-26(4)19-13-20-28(6)23-15-24-29(7)22-14-21-27(5)18-1
<b>InchiKey:</b>	QIJHTXDNXGBXLQ-UHFFFAOYSA-N
<b>Formula:</b>	C29H60
<b>SMILES:</b>	CCCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CC
<b>Mol. weight [g/mol]:</b>	408.79

## Physical Properties

Property code	Value	Unit	Source
gf	181.10	kJ/mol	Joback Method
hf	-668.29	kJ/mol	Joback Method
hfus	53.25	kJ/mol	Joback Method
hvap	78.21	kJ/mol	Joback Method
log10ws	-10.75		Crippen Method
logp	10.838		Crippen Method
mcvol	419.470	ml/mol	McGowan Method
pc	637.05	kPa	Joback Method
rinsol	2576.00		NIST Webbook
tb	860.72	K	Joback Method
tc	1054.25	K	Joback Method
tf	341.59	K	Joback Method
vc	1.629	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1416.53	J/molxK	860.72	Joback Method
cpg	1442.34	J/molxK	892.98	Joback Method
cpg	1466.72	J/molxK	925.23	Joback Method
cpg	1489.75	J/molxK	957.49	Joback Method
cpg	1511.50	J/molxK	989.74	Joback Method
cpg	1532.03	J/molxK	1022.00	Joback Method
cpg	1551.40	J/molxK	1054.25	Joback Method
dvisc	0.0054428	Paxs	341.59	Joback Method
dvisc	0.0008051	Paxs	428.11	Joback Method

dvisc	0.0002264	Paxs	514.63	Joback Method
dvisc	0.0000917	Paxs	601.15	Joback Method
dvisc	0.0000467	Paxs	687.68	Joback Method
dvisc	0.0000276	Paxs	774.20	Joback Method
dvisc	0.0000181	Paxs	860.72	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=R215619&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R215619&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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<https://www.chemeo.com/cid/16-045-4/Tetracosane-3-7-11-15-19-pentamethyl.pdf>

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