

# 6,10,14,18-tetramethyltetracontane

**Inchi:** InChI=1S/C44H90/c1-7-9-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-29-34-44  
**InchiKey:** ZMEPYDSNKFTKOS-UHFFFAOYSA-N  
**Formula:** C44H90  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC  
**Mol. weight [g/mol]:** 619.19

## Physical Properties

Property code	Value	Unit	Source
gf	309.84	kJ/mol	Joback Method
hf	-972.61	kJ/mol	Joback Method
hfus	95.62	kJ/mol	Joback Method
hvap	111.99	kJ/mol	Joback Method
log10ws	-17.27		Crippen Method
logp	16.834		Crippen Method
mcvol	630.820	ml/mol	McGowan Method
pc	341.67	kPa	Joback Method
rinpol	4104.00		NIST Webbook
tb	1204.36	K	Joback Method
tc	1671.51	K	Joback Method
tf	525.64	K	Joback Method
vc	2.475	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2459.23	J/molxK	1204.36	Joback Method
cpg	2676.15	J/molxK	1593.66	Joback Method
cpg	2637.15	J/molxK	1515.80	Joback Method
cpg	2597.40	J/molxK	1437.94	Joback Method
cpg	2555.47	J/molxK	1360.08	Joback Method
cpg	2509.89	J/molxK	1282.22	Joback Method
cpg	2715.85	J/molxK	1671.51	Joback Method
dvisc	0.0000017	Paxs	1204.36	Joback Method
dvisc	0.0000025	Paxs	1091.24	Joback Method

dvisc	0.0000041	Paxs	978.12	Joback Method
dvisc	0.0000076	Paxs	865.00	Joback Method
dvisc	0.0000170	Paxs	751.88	Joback Method
dvisc	0.0000503	Paxs	638.76	Joback Method
dvisc	0.0002375	Paxs	525.64	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=R331538&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R331538&amp;Units=SI</a>
<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>

## 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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