

# 8,12,16,20-Tetramethylhexatriacontane

**Inchi:** InChI=1S/C40H82/c1-7-9-11-13-14-15-16-17-18-19-20-21-23-25-30-38(4)32-27-34-40(6)  
**InchiKey:** PLBZECLXQTYORW-UHFFFAOYSA-N  
**Formula:** C40H82  
**SMILES:** CCCCCCCCCCCCCCCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCCCCC  
**Mol. weight [g/mol]:** 563.08

## Physical Properties

Property code	Value	Unit	Source
gf	276.16	kJ/mol	Joback Method
hf	-890.05	kJ/mol	Joback Method
hfus	85.26	kJ/mol	Joback Method
hvap	103.08	kJ/mol	Joback Method
log10ws	-15.60		Crippen Method
logp	15.274		Crippen Method
mcvol	574.460	ml/mol	McGowan Method
pc	395.87	kPa	Joback Method
rinpol	3713.00		NIST Webbook
rinpol	3713.00		NIST Webbook
rinpol	3713.00		NIST Webbook
tb	1112.84	K	Joback Method
tc	1460.95	K	Joback Method
tf	480.56	K	Joback Method
vc	2.252	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2175.86	J/molxK	1112.84	Joback Method
cpg	2216.12	J/molxK	1170.86	Joback Method
cpg	2252.75	J/molxK	1228.88	Joback Method
cpg	2286.29	J/molxK	1286.90	Joback Method
cpg	2317.29	J/molxK	1344.92	Joback Method
cpg	2346.28	J/molxK	1402.93	Joback Method
cpg	2373.80	J/molxK	1460.95	Joback Method

dvisc	0.0004973	Paxs	480.56	Joback Method
dvisc	0.0001022	Paxs	585.94	Joback Method
dvisc	0.0000340	Paxs	691.32	Joback Method
dvisc	0.0000152	Paxs	796.70	Joback Method
dvisc	0.0000082	Paxs	902.08	Joback Method
dvisc	0.0000050	Paxs	1007.46	Joback Method
dvisc	0.0000034	Paxs	1112.84	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=R505858&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R505858&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>

## 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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