

# 3,7,11,15-tetramethyl-heptatriacontane

**Inchi:** InChI=1S/C41H84/c1-7-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-31-32-33-34-35-36-37-38-39-40-41  
**InchiKey:** PKBDPFQKLIRAFP-UHFFFAOYSA-N  
**Formula:** C41H84  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CCCC(C)CCCC(C)CC  
**Mol. weight [g/mol]:** 577.11

## Physical Properties

Property code	Value	Unit	Source
gf	284.58	kJ/mol	Joback Method
hf	-910.69	kJ/mol	Joback Method
hfus	87.85	kJ/mol	Joback Method
hvap	105.31	kJ/mol	Joback Method
log10ws	-16.02		Crippen Method
logp	15.664		Crippen Method
mcvol	588.550	ml/mol	McGowan Method
pc	381.17	kPa	Joback Method
rinpol	3855.00		NIST Webbook
rinpol	3855.00		NIST Webbook
rinpol	3855.00		NIST Webbook
rinpol	3860.00		NIST Webbook
tb	1135.72	K	Joback Method
tc	1509.28	K	Joback Method
tf	491.83	K	Joback Method
vc	2.308	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2246.46	J/molxK	1135.72	Joback Method
cpg	2288.95	J/molxK	1197.98	Joback Method
cpg	2327.47	J/molxK	1260.24	Joback Method
cpg	2362.69	J/molxK	1322.50	Joback Method
cpg	2395.30	J/molxK	1384.76	Joback Method
cpg	2426.00	J/molxK	1447.02	Joback Method

cpg	2455.47	J/mol×K	1509.28	Joback Method
dvisc	0.0004135	Paxs	491.83	Joback Method
dvisc	0.0000857	Paxs	599.14	Joback Method
dvisc	0.0000286	Paxs	706.46	Joback Method
dvisc	0.0000128	Paxs	813.78	Joback Method
dvisc	0.0000069	Paxs	921.09	Joback Method
dvisc	0.0000042	Paxs	1028.40	Joback Method
dvisc	0.0000028	Paxs	1135.72	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=R300326&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R300326&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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