

# Tetratriacontane, 2,22-dimethyl

**Inchi:** InChI=1S/C46H94/c1-5-6-7-8-9-10-11-12-13-14-15-16-19-22-25-28-31-34-37-40-43-46(4)  
**InchiKey:** SYRKHSLWMMZGFD-UHFFFAOYSA-N  
**Formula:** C46H94  
**SMILES:** CCCCCCCCCCCCCCCCCCCCCC(C)CCCCCCCCCCCCCCCCCCCCC(C)C  
**Mol. weight [g/mol]:** 647.24

## Physical Properties

Property code	Value	Unit	Source
gf	331.56	kJ/mol	Joback Method
hf	-1003.33	kJ/mol	Joback Method
hfus	107.85	kJ/mol	Joback Method
hvap	117.21	kJ/mol	Joback Method
log10ws	-18.59		Crippen Method
logp	17.902		Crippen Method
mcvol	659.000	ml/mol	McGowan Method
pc	316.84	kPa	Joback Method
rinpol	3494.00		NIST Webbook
tb	1251.00	K	Joback Method
tc	1825.60	K	Joback Method
tf	578.18	K	Joback Method
vc	2.599	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2602.99	J/molxK	1251.00	Joback Method
cpg	2664.31	J/molxK	1346.77	Joback Method
cpg	2719.70	J/molxK	1442.53	Joback Method
cpg	2772.00	J/molxK	1538.30	Joback Method
cpg	2824.03	J/molxK	1634.07	Joback Method
cpg	2878.59	J/molxK	1729.83	Joback Method
cpg	2938.52	J/molxK	1825.60	Joback Method
dvisc	0.0001195	Paxs	578.18	Joback Method
dvisc	0.0000318	Paxs	690.32	Joback Method

dvisc	0.0000122	Paxs	802.45	Joback Method
dvisc	0.0000059	Paxs	914.59	Joback Method
dvisc	0.0000034	Paxs	1026.73	Joback Method
dvisc	0.0000022	Paxs	1138.86	Joback Method
dvisc	0.0000015	Paxs	1251.00	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=R584673&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R584673&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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