

# 2,10,20-Trimethyltriacontane

**Inchi:** InChI=1S/C33H68/c1-6-7-8-9-10-12-17-22-27-32(4)28-23-18-13-11-14-19-24-29-33(5)30  
**InchiKey:** IDPJOZBBFKARCN-UHFFFAOYSA-N  
**Formula:** C33H68  
**SMILES:** CCCCCCCCCC(C)CCCCCCCCC(C)CCCCCCCC(C)C  
**Mol. weight [g/mol]:** 464.89

## Physical Properties

Property code	Value	Unit	Source
gf	219.66	kJ/mol	Joback Method
hf	-740.29	kJ/mol	Joback Method
hfus	70.66	kJ/mol	Joback Method
hvap	87.89	kJ/mol	Joback Method
log10ws	-12.91		Crippen Method
logp	12.687		Crippen Method
mcvol	475.830	ml/mol	McGowan Method
pc	525.57	kPa	Joback Method
rinsol	3123.00		NIST Webbook
tb	953.12	K	Joback Method
tc	1184.34	K	Joback Method
tf	416.67	K	Joback Method
vc	1.865	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1687.56	J/molxK	953.12	Joback Method
cpg	1818.10	J/molxK	1145.80	Joback Method
cpg	1795.33	J/molxK	1107.26	Joback Method
cpg	1771.03	J/molxK	1068.73	Joback Method
cpg	1745.05	J/molxK	1030.19	Joback Method
cpg	1717.27	J/molxK	991.66	Joback Method
cpg	1839.46	J/molxK	1184.34	Joback Method
dvisc	0.0000116	Paxs	953.12	Joback Method
dvisc	0.0000170	Paxs	863.71	Joback Method

dvisc	0.0000273	Paxs	774.30	Joback Method
dvisc	0.0000495	Paxs	684.89	Joback Method
dvisc	0.0001074	Paxs	595.49	Joback Method
dvisc	0.0003061	Paxs	506.08	Joback Method
dvisc	0.0013680	Paxs	416.67	Joback Method

## Sources

<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=R337734&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R337734&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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