

# 16,20,24-Trimethyl-dotriacontyl cyanide

**Inchi:** InChI=1S/C36H71N/c1-5-6-7-8-19-22-27-34(2)29-25-31-36(4)32-26-30-35(3)28-23-20-17  
**InchiKey:** WXXIFCZTFPBQKX-UHFFFAOYSA-N  
**Formula:** C36H71N  
**SMILES:** CCCCCCCCC(C)CCCC(C)CCCC(C)CCCCCCCCCCCCCCCC#N  
**Mol. weight [g/mol]:** 517.96

## Physical Properties

Property code	Value	Unit	Source
gf	378.10	kJ/mol	Joback Method
hf	-637.33	kJ/mol	Joback Method
hfus	79.93	kJ/mol	Joback Method
hvap	105.04	kJ/mol	Joback Method
log10ws	-14.03		Crippen Method
logp	13.361		Crippen Method
mvol	519.480	ml/mol	McGowan Method
pc	457.55	kPa	Joback Method
rinpol	3737.00		NIST Webbook
rinpol	3737.00		NIST Webbook
tb	1123.84	K	Joback Method
tc	1448.17	K	Joback Method
tf	515.47	K	Joback Method
vc	2.059	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1941.34	J/molxK	1123.84	Joback Method
cpg	1973.76	J/molxK	1177.89	Joback Method
cpg	2003.45	J/molxK	1231.95	Joback Method
cpg	2030.81	J/molxK	1286.00	Joback Method
cpg	2056.21	J/molxK	1340.06	Joback Method
cpg	2080.05	J/molxK	1394.11	Joback Method
cpg	2102.72	J/molxK	1448.17	Joback Method

# Sources

<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>
<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=R202301&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R202301&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>rinpola:</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

Latest version available from:

<https://www.chemeo.com/cid/49-367-1/16-20-24-Trimethyl-dotriacontyl-cyanide.pdf>

Generated by Cheméo on 2024-04-18 04:57:22.319705442 +0000 UTC m=+15705491.240282758.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.