

# 16,20,24-Trimethyl-hentriacontyl cyanide

**Inchi:** InChI=1S/C35H69N/c1-5-6-7-18-21-26-33(2)28-24-30-35(4)31-25-29-34(3)27-22-19-16-17-13-14-15-20-23-32-34-35  
**InchiKey:** VKVVQYUZIIXQDK-UHFFFAOYSA-N  
**Formula:** C35H69N  
**SMILES:** CCCCCCCC(C)CCCC(C)CCCC(C)CCCCCCCCCCCCCCCCC#N  
**Mol. weight [g/mol]:** 503.93

## Physical Properties

Property code	Value	Unit	Source
gf	369.68	kJ/mol	Joback Method
hf	-616.69	kJ/mol	Joback Method
hfus	77.34	kJ/mol	Joback Method
hvap	102.82	kJ/mol	Joback Method
log10ws	-13.61		Crippen Method
logp	12.971		Crippen Method
mvol	505.390	ml/mol	McGowan Method
pc	476.93	kPa	Joback Method
rinpol	3632.00		NIST Webbook
rinpol	3632.00		NIST Webbook
tb	1100.96	K	Joback Method
tc	1405.51	K	Joback Method
tf	504.20	K	Joback Method
vc	2.003	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1873.08	J/mol×K	1100.96	Joback Method
cpg	1903.90	J/mol×K	1151.72	Joback Method
cpg	1932.22	J/mol×K	1202.48	Joback Method
cpg	1958.35	J/mol×K	1253.23	Joback Method
cpg	1982.60	J/mol×K	1303.99	Joback Method
cpg	2005.29	J/mol×K	1354.75	Joback Method
cpg	2026.73	J/mol×K	1405.51	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=R202316&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R202316&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>h vap:</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>r in pol:</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.cheméo.com/cid/47-304-2/16-20-24-Trimethyl-hentriacontyl-cyanide.pdf>

Generated by Cheméo on 2024-04-27 14:52:57.998535402 +0000 UTC m=+16518826.919112715.

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