

# 20,24-Dimethyl-dotriacontyl cyanide

**Inchi:** InChI=1S/C35H69N/c1-4-5-6-7-22-25-29-34(2)31-28-32-35(3)30-26-23-20-18-16-14-12-10-9-8-3  
**InchiKey:** OXTIDGRRPRHOPX-UHFFFAOYSA-N  
**Formula:** C35H69N  
**SMILES:** CCCCCCCC(C)CCCC(C)CCCCCCCCCCCCCCCCCCCCC#N  
**Mol. weight [g/mol]:** 503.93

## Physical Properties

Property code	Value	Unit	Source
gf	372.12	kJ/mol	Joback Method
hf	-611.41	kJ/mol	Joback Method
hfus	80.87	kJ/mol	Joback Method
hvap	103.21	kJ/mol	Joback Method
log10ws	-13.86		Crippen Method
logp	13.115		Crippen Method
mvol	505.390	ml/mol	McGowan Method
pc	475.27	kPa	Joback Method
rinpol	3712.00		NIST Webbook
rinpol	3712.00		NIST Webbook
tb	1101.40	K	Joback Method
tc	1410.98	K	Joback Method
tf	519.20	K	Joback Method
vc	2.010	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1873.07	J/molxK	1101.40	Joback Method
cpg	1904.52	J/molxK	1153.00	Joback Method
cpg	1933.42	J/molxK	1204.59	Joback Method
cpg	1960.10	J/molxK	1256.19	Joback Method
cpg	1984.88	J/molxK	1307.79	Joback Method
cpg	2008.10	J/molxK	1359.38	Joback Method
cpg	2030.08	J/molxK	1410.98	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=R202549&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R202549&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>
<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>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

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