

# 20-Methyl-triacontyl cyanide

**Inchi:** InChI=1S/C32H63N/c1-3-4-5-6-7-20-23-26-29-32(2)30-27-24-21-18-16-14-12-10-8-9-11-  
**InchiKey:** WBJVNQITGCHJDG-UHFFFAOYSA-N  
**Formula:** C32H63N  
**SMILES:** CCCCCCCCCC(C)CCCCCCCCCCCCCCCCCCCC#N  
**Mol. weight [g/mol]:** 461.85

## Physical Properties

Property code	Value	Unit	Source
gf	349.30	kJ/mol	Joback Method
hf	-544.21	kJ/mol	Joback Method
hfus	76.62	kJ/mol	Joback Method
hvap	96.92	kJ/mol	Joback Method
log10ws	-12.84		Crippen Method
logp	12.089		Crippen Method
mvol	463.120	ml/mol	McGowan Method
pc	539.08	kPa	Joback Method
rinpol	3487.00		NIST Webbook
rinpol	3487.00		NIST Webbook
tb	1033.20	K	Joback Method
tc	1296.44	K	Joback Method
tf	500.39	K	Joback Method
vc	1.847	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1669.67	J/mol×K	1033.20	Joback Method
cpg	1697.39	J/mol×K	1077.07	Joback Method
cpg	1723.11	J/mol×K	1120.95	Joback Method
cpg	1747.03	J/mol×K	1164.82	Joback Method
cpg	1769.33	J/mol×K	1208.69	Joback Method
cpg	1790.19	J/mol×K	1252.56	Joback Method
cpg	1809.80	J/mol×K	1296.44	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=R202638&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R202638&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvp:</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>rinp:</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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