

# 22,26-Dimethyl-tritriacontyl cyanide

<b>Inchi:</b>	InChI=1S/C36H71N/c1-4-5-6-23-26-30-35(2)32-29-33-36(3)31-27-24-21-19-17-15-13-11
<b>InchiKey:</b>	RQZNUFNZGDUOPX-UHFFFAOYSA-N
<b>Formula:</b>	C36H71N
<b>SMILES:</b>	CCCCCCCC(C)CCCC(C)CCCCCCCCCCCCCCCCCCCCCCC#N
<b>Mol. weight [g/mol]:</b>	517.96

## Physical Properties

Property code	Value	Unit	Source
gf	380.54	kJ/mol	Joback Method
hf	-632.05	kJ/mol	Joback Method
hfus	83.46	kJ/mol	Joback Method
hvap	105.43	kJ/mol	Joback Method
log10ws	-14.28		Crippen Method
logp	13.505		Crippen Method
mvol	519.480	ml/mol	McGowan Method
pc	455.99	kPa	Joback Method
rinpol	3814.00		NIST Webbook
rinpol	3814.00		NIST Webbook
tb	1124.28	K	Joback Method
tc	1454.36	K	Joback Method
tf	530.47	K	Joback Method
vc	2.066	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1941.40	J/mol×K	1124.28	Joback Method
cpg	1974.53	J/mol×K	1179.29	Joback Method
cpg	2004.88	J/mol×K	1234.31	Joback Method
cpg	2032.86	J/mol×K	1289.32	Joback Method
cpg	2058.87	J/mol×K	1344.33	Joback Method
cpg	2083.33	J/mol×K	1399.35	Joback Method
cpg	2106.64	J/mol×K	1454.36	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=R202678&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R202678&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>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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