

# 18,22,26-Trimethyl-dotriacontyl cyanide

**Inchi:** InChI=1S/C36H71N/c1-5-6-7-22-27-34(2)29-25-31-36(4)32-26-30-35(3)28-23-20-18-16-14-12-10-9-8-3-2-1  
**InchiKey:** HTBFLBWBWLBAKW-UHFFFAOYSA-N  
**Formula:** C36H71N  
**SMILES:** CCCCCC(C)CCCC(C)CCCC(C)CCCCCCCCCCCCCCCCCCC#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 |
| mcvol         | 519.480 | ml/mol  | McGowan Method |
| pc            | 457.55  | kPa     | Joback Method  |
| rinpol        | 3744.00 |         | NIST Webbook   |
| tb            | 1123.84 | K       | Joback Method  |
| tc            | 1448.17 | K       | Joback Method  |
| tf            | 515.47  | K       | Joback Method  |
| vc            | 2.059   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

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

# Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R202396&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R202396&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>                                     |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>rinpol:</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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