

28-Methyl-triacontyl cyanide

Inchi: InChI=1S/C32H63N/c1-3-32(2)30-28-26-24-22-20-18-16-14-12-10-8-6-4-5-7-9-11-13-15-
InchiKey: DABXOZVINIJWEL-UHFFFAOYSA-N
Formula: C32H63N
SMILES: CCC(C)CCCCCCCCCCCCCCCCCCCCCCCCCCCC#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 | 3531.00 | | NIST Webbook |
| rinpol | 3531.00 | | NIST Webbook |
| tb | 1033.20 | K | Joback Method |
| tc | 1296.44 | K | Joback Method |
| tf | 500.39 | K | Joback Method |
| vc | 1.847 | m ³ /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

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R202732&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvp: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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