

Nonacosane, 10-methyl

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| Inchi: | InChI=1S/C30H62/c1-4-6-8-10-12-13-14-15-16-17-18-19-20-21-23-25-27-29-30(3)28-26 |
| InchiKey: | CVSBSPFRDRRNFB-UHFFFAOYSA-N |
| Formula: | C30H62 |
| SMILES: | CCCCCCCCCCCCCCCCCCCC(C)CCCCCCCC |
| Mol. weight [g/mol]: | 422.81 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 199.28 | kJ/mol | Joback Method |
| hf | -667.81 | kJ/mol | Joback Method |
| hfus | 69.93 | kJ/mol | Joback Method |
| hvap | 81.99 | kJ/mol | Joback Method |
| log10ws | -12.14 | | Crippen Method |
| logp | 11.805 | | Crippen Method |
| mvol | 433.560 | ml/mol | McGowan Method |
| pc | 597.80 | kPa | Joback Method |
| rinpol | 2937.00 | | NIST Webbook |
| rinpol | 2937.00 | | NIST Webbook |
| tb | 885.36 | K | Joback Method |
| tc | 1090.03 | K | Joback Method |
| tf | 412.86 | K | Joback Method |
| vc | 1.710 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1482.38 | J/molxK | 885.36 | Joback Method |
| cpg | 1603.48 | J/molxK | 1055.92 | Joback Method |
| cpg | 1582.00 | J/molxK | 1021.80 | Joback Method |
| cpg | 1559.23 | J/molxK | 987.69 | Joback Method |
| cpg | 1535.09 | J/molxK | 953.58 | Joback Method |
| cpg | 1509.50 | J/molxK | 919.47 | Joback Method |
| cpg | 1623.76 | J/molxK | 1090.03 | Joback Method |
| dvisc | 0.0000222 | Paxs | 885.36 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000315 | Paxs | 806.61 | Joback Method |
| dvisc | 0.0000482 | Paxs | 727.86 | Joback Method |
| dvisc | 0.0000818 | Paxs | 649.11 | Joback Method |
| dvisc | 0.0001607 | Paxs | 570.36 | Joback Method |
| dvisc | 0.0003919 | Paxs | 491.61 | Joback Method |
| dvisc | 0.0013422 | Paxs | 412.86 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R570802&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

Legend

| | |
|----------------------------|---|
| cp_g: | Ideal gas heat capacity |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| h_{vap}: | Enthalpy of vaporization at standard conditions |
| log₁₀ws: | Log ₁₀ of Water solubility in mol/l |
| log_p: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/46-342-1/Nonacosane-10-methyl.pdf>

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