

Nonacosane, 2,6,10,14,18,22,26-heptamethyl

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| Inchi: | InChI=1S/C36H74/c1-10-17-31(4)20-12-21-33(6)24-14-25-35(8)28-16-29-36(9)27-15-26 |
| InchiKey: | MAKXEDZPHRYYBQ-UHFFFAOYSA-N |
| Formula: | C36H74 |
| SMILES: | CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC(C)C |
| Mol. weight [g/mol]: | 506.97 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 235.16 | kJ/mol | Joback Method |
| hf | -823.33 | kJ/mol | Joback Method |
| hfus | 64.33 | kJ/mol | Joback Method |
| hvap | 93.01 | kJ/mol | Joback Method |
| log10ws | -13.20 | | Crippen Method |
| logp | 13.281 | | Crippen Method |
| mcvol | 518.100 | ml/mol | McGowan Method |
| pc | 468.91 | kPa | Joback Method |
| rinpol | 3125.00 | | NIST Webbook |
| rinpol | 3125.00 | | NIST Webbook |
| rinpol | 3135.00 | | NIST Webbook |
| tb | 1020.00 | K | Joback Method |
| tc | 1278.22 | K | Joback Method |
| tf | 390.48 | K | Joback Method |
| vc | 2.010 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1895.93 | J/molxK | 1020.00 | Joback Method |
| cpg | 1927.58 | J/molxK | 1063.04 | Joback Method |
| cpg | 1956.86 | J/molxK | 1106.07 | Joback Method |
| cpg | 1983.98 | J/molxK | 1149.11 | Joback Method |
| cpg | 2009.13 | J/molxK | 1192.15 | Joback Method |
| cpg | 2032.51 | J/molxK | 1235.19 | Joback Method |
| cpg | 2054.32 | J/molxK | 1278.22 | Joback Method |

| | | | | |
|-------|-----------|------|---------|---------------|
| dvisc | 0.0025761 | Paxs | 390.48 | Joback Method |
| dvisc | 0.0002999 | Paxs | 495.40 | Joback Method |
| dvisc | 0.0000740 | Paxs | 600.32 | Joback Method |
| dvisc | 0.0000277 | Paxs | 705.24 | Joback Method |
| dvisc | 0.0000134 | Paxs | 810.16 | Joback Method |
| dvisc | 0.0000076 | Paxs | 915.08 | Joback Method |
| dvisc | 0.0000049 | Paxs | 1020.00 | 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=R213811&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

Legend

| | |
|-----------------|---|
| cpg: | 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 |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mvol: | 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 |

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