

15-Methylpentatriacontane

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|-----------------------------|---|
| Other names: | Pentatriacontane, 15-methyl |
| Inchi: | InChI=1S/C36H74/c1-4-6-8-10-12-14-16-18-19-20-21-22-23-25-27-29-31-33-35-36(3)34- |
| InchiKey: | CUYUHFDLJSUYHY-UHFFFAOYSA-N |
| Formula: | C36H74 |
| SMILES: | CCCCCCCCCCCCCCCCCCCC(C)CCCCCCCCCCCCCCC |
| Mol. weight [g/mol]: | 506.97 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 249.80 | kJ/mol | Joback Method |
| hf | -791.65 | kJ/mol | Joback Method |
| hfus | 85.47 | kJ/mol | Joback Method |
| hvap | 95.34 | kJ/mol | Joback Method |
| log10ws | -14.65 | | Crippen Method |
| logp | 14.146 | | Crippen Method |
| mcvol | 518.100 | ml/mol | McGowan Method |
| pc | 459.31 | kPa | Joback Method |
| rinpol | 3530.00 | | NIST Webbook |
| rinpol | 3535.00 | | NIST Webbook |
| rinpol | 3529.00 | | NIST Webbook |
| rinpol | 3533.00 | | NIST Webbook |
| rinpol | 3530.00 | | NIST Webbook |
| rinpol | 3527.00 | | NIST Webbook |
| rinpol | 3526.00 | | NIST Webbook |
| rinpol | 3535.00 | | NIST Webbook |
| rinpol | 3524.00 | | NIST Webbook |
| rinpol | 3523.00 | | NIST Webbook |
| rinpol | 3526.00 | | NIST Webbook |
| tb | 1022.64 | K | Joback Method |
| tc | 1304.31 | K | Joback Method |
| tf | 480.48 | K | Joback Method |
| vc | 2.046 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1895.00 | J/molxK | 1022.64 | Joback Method |
| cpg | 1929.92 | J/molxK | 1069.59 | Joback Method |
| cpg | 1962.18 | J/molxK | 1116.53 | Joback Method |
| cpg | 1992.06 | J/molxK | 1163.48 | Joback Method |
| cpg | 2019.81 | J/molxK | 1210.42 | Joback Method |
| cpg | 2045.68 | J/molxK | 1257.37 | Joback Method |
| cpg | 2069.95 | J/molxK | 1304.31 | Joback Method |
| dvisc | 0.0005358 | Paxs | 480.48 | Joback Method |
| dvisc | 0.0001564 | Paxs | 570.84 | Joback Method |
| dvisc | 0.0000639 | Paxs | 661.20 | Joback Method |
| dvisc | 0.0000324 | Paxs | 751.56 | Joback Method |
| dvisc | 0.0000190 | Paxs | 841.92 | Joback Method |
| dvisc | 0.0000123 | Paxs | 932.28 | Joback Method |
| dvisc | 0.0000087 | Paxs | 1022.64 | 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=R261573&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 |

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|----------------|----------------------------------|
| 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 |

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