

12,24 -Dimethyloctatriacontane

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|-----------------------------|---|
| Inchi: | InChI=1S/C40H82/c1-5-7-9-11-13-15-16-17-20-24-28-32-36-40(4)38-34-30-26-22-18-21- |
| InchiKey: | YNZPGKOXWUXUBD-UHFFFAOYSA-N |
| Formula: | C40H82 |
| SMILES: | CCCCCCCCCCCC(C)CCCCCCCCCCCC(C)CCCCCCCCCCC |
| Mol. weight [g/mol]: | 563.08 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 281.04 | kJ/mol | Joback Method |
| hf | -879.49 | kJ/mol | Joback Method |
| hfus | 92.31 | kJ/mol | Joback Method |
| hvap | 103.86 | kJ/mol | Joback Method |
| log10ws | -16.08 | | Crippen Method |
| logp | 15.562 | | Crippen Method |
| mcvol | 574.460 | ml/mol | McGowan Method |
| pc | 393.36 | kPa | Joback Method |
| rinpol | 3854.00 | | NIST Webbook |
| rinpol | 3854.00 | | NIST Webbook |
| tb | 1113.72 | K | Joback Method |
| tc | 1475.80 | K | Joback Method |
| tf | 510.56 | K | Joback Method |
| vc | 2.264 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 2176.00 | J/molxK | 1113.72 | Joback Method |
| cpg | 2354.59 | J/molxK | 1415.45 | Joback Method |
| cpg | 2324.07 | J/molxK | 1355.11 | Joback Method |
| cpg | 2291.57 | J/molxK | 1294.76 | Joback Method |
| cpg | 2256.46 | J/molxK | 1234.41 | Joback Method |
| cpg | 2218.14 | J/molxK | 1174.07 | Joback Method |
| cpg | 2383.72 | J/molxK | 1475.80 | Joback Method |
| dvisc | 0.0000041 | Paxs | 1113.72 | Joback Method |

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|-------|-----------|------|---------|---------------|
| dvisc | 0.0000059 | Paxs | 1013.19 | Joback Method |
| dvisc | 0.0000093 | Paxs | 912.67 | Joback Method |
| dvisc | 0.0000163 | Paxs | 812.14 | Joback Method |
| dvisc | 0.0000336 | Paxs | 711.61 | Joback Method |
| dvisc | 0.0000877 | Paxs | 611.09 | Joback Method |
| dvisc | 0.0003343 | Paxs | 510.56 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R337492&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 |

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 |
| 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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