

5,11,15,19-tetramethylpentatriacontane

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|-----------------------------|---|
| Inchi: | InChI=1S/C39H80/c1-7-9-11-12-13-14-15-16-17-18-19-20-21-23-29-37(4)32-26-34-39(6) |
| InchiKey: | GWBWPBIRCIUOIO-UHFFFAOYSA-N |
| Formula: | C39H80 |
| SMILES: | CCCCCCCCCCCCCCCC(C)CCCC(C)CCCC(C)CCCC(C)CCCC |
| Mol. weight [g/mol]: | 549.05 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 267.74 | kJ/mol | Joback Method |
| hf | -869.41 | kJ/mol | Joback Method |
| hfus | 82.67 | kJ/mol | Joback Method |
| hvap | 100.86 | kJ/mol | Joback Method |
| log10ws | -15.18 | | Crippen Method |
| logp | 14.883 | | Crippen Method |
| mcvol | 560.370 | ml/mol | McGowan Method |
| pc | 411.44 | kPa | Joback Method |
| rinpol | 3628.00 | | NIST Webbook |
| rinpol | 3628.00 | | NIST Webbook |
| tb | 1089.96 | K | Joback Method |
| tc | 1415.10 | K | Joback Method |
| tf | 469.29 | K | Joback Method |
| vc | 2.196 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 2105.45 | J/molxK | 1089.96 | Joback Method |
| cpg | 2267.84 | J/molxK | 1360.91 | Joback Method |
| cpg | 2240.25 | J/molxK | 1306.72 | Joback Method |
| cpg | 2210.65 | J/molxK | 1252.53 | Joback Method |
| cpg | 2178.60 | J/molxK | 1198.34 | Joback Method |
| cpg | 2143.68 | J/molxK | 1144.15 | Joback Method |
| cpg | 2293.84 | J/molxK | 1415.10 | Joback Method |
| dvisc | 0.0000040 | Paxs | 1089.96 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000059 | Paxs | 986.51 | Joback Method |
| dvisc | 0.0000096 | Paxs | 883.07 | Joback Method |
| dvisc | 0.0000179 | Paxs | 779.62 | Joback Method |
| dvisc | 0.0000404 | Paxs | 676.18 | Joback Method |
| dvisc | 0.0001218 | Paxs | 572.74 | Joback Method |
| dvisc | 0.0005981 | Paxs | 469.29 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=R280227&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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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