

6,10,12,16-Tetramethylhexatriacontane

Inchi: InChI=1S/C40H82/c1-7-9-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-27-31-38(4)33
InchiKey: YHNFOHKDNXSTMM-UHFFFAOYSA-N
Formula: C40H82
SMILES: CCCCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CC(C)CCCC(C)CCCC
Mol. weight [g/mol]: 563.08

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 276.16 | kJ/mol | Joback Method |
| hf | -890.05 | kJ/mol | Joback Method |
| hfus | 85.26 | kJ/mol | Joback Method |
| hvap | 103.08 | kJ/mol | Joback Method |
| log10ws | -15.60 | | Crippen Method |
| logp | 15.274 | | Crippen Method |
| mcvol | 574.460 | ml/mol | McGowan Method |
| pc | 395.87 | kPa | Joback Method |
| rinpol | 3723.00 | | NIST Webbook |
| rinpol | 3723.00 | | NIST Webbook |
| rinpol | 3723.00 | | NIST Webbook |
| tb | 1112.84 | K | Joback Method |
| tc | 1460.95 | K | Joback Method |
| tf | 480.56 | K | Joback Method |
| vc | 2.252 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 2175.86 | J/molxK | 1112.84 | Joback Method |
| cpg | 2216.12 | J/molxK | 1170.86 | Joback Method |
| cpg | 2252.75 | J/molxK | 1228.88 | Joback Method |
| cpg | 2286.29 | J/molxK | 1286.90 | Joback Method |
| cpg | 2317.29 | J/molxK | 1344.92 | Joback Method |
| cpg | 2346.28 | J/molxK | 1402.93 | Joback Method |
| cpg | 2373.80 | J/molxK | 1460.95 | Joback Method |

| | | | | |
|-------|-----------|------|---------|---------------|
| dvisc | 0.0004973 | Paxs | 480.56 | Joback Method |
| dvisc | 0.0001022 | Paxs | 585.94 | Joback Method |
| dvisc | 0.0000340 | Paxs | 691.32 | Joback Method |
| dvisc | 0.0000152 | Paxs | 796.70 | Joback Method |
| dvisc | 0.0000082 | Paxs | 902.08 | Joback Method |
| dvisc | 0.0000050 | Paxs | 1007.46 | Joback Method |
| dvisc | 0.0000034 | Paxs | 1112.84 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R505690&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| 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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