

13,17,25-trimethylheptatriacontane

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|-----------------------------|---|
| Inchi: | InChI=1S/C40H82/c1-6-8-10-12-14-16-18-20-23-27-32-38(3)33-29-25-22-26-30-35-40(5) |
| InchiKey: | QXVLDDIWVBNFN-UHFFFAOYSA-N |
| Formula: | C40H82 |
| SMILES: | CCCCCCCCCCCC(C)CCCCCCCC(C)CCCC(C)CCCCCCCCCCCC |
| Mol. weight [g/mol]: | 563.08 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 278.60 | kJ/mol | Joback Method |
| hf | -884.77 | kJ/mol | Joback Method |
| hfus | 88.79 | kJ/mol | Joback Method |
| hvap | 103.47 | kJ/mol | Joback Method |
| log10ws | -15.84 | | Crippen Method |
| logp | 15.418 | | Crippen Method |
| mcvol | 574.460 | ml/mol | McGowan Method |
| pc | 394.61 | kPa | Joback Method |
| rinpol | 3782.00 | | NIST Webbook |
| rinpol | 3780.00 | | NIST Webbook |
| rinpol | 3780.00 | | NIST Webbook |
| rinpol | 3780.00 | | NIST Webbook |
| tb | 1113.28 | K | Joback Method |
| tc | 1468.24 | K | Joback Method |
| tf | 495.56 | K | Joback Method |
| vc | 2.257 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 2175.93 | J/molxK | 1113.28 | Joback Method |
| cpg | 2217.11 | J/molxK | 1172.44 | Joback Method |
| cpg | 2254.57 | J/molxK | 1231.60 | Joback Method |
| cpg | 2288.88 | J/molxK | 1290.76 | Joback Method |
| cpg | 2320.61 | J/molxK | 1349.92 | Joback Method |
| cpg | 2350.35 | J/molxK | 1409.08 | Joback Method |

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|-------|-----------|---------|---------|---------------|
| cpg | 2378.66 | J/molxK | 1468.24 | Joback Method |
| dvisc | 0.0004037 | Paxs | 495.56 | Joback Method |
| dvisc | 0.0000943 | Paxs | 598.51 | Joback Method |
| dvisc | 0.0000337 | Paxs | 701.47 | Joback Method |
| dvisc | 0.0000157 | Paxs | 804.42 | Joback Method |
| dvisc | 0.0000087 | Paxs | 907.37 | Joback Method |
| dvisc | 0.0000054 | Paxs | 1010.33 | Joback Method |
| dvisc | 0.0000037 | Paxs | 1113.28 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R272023&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 |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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