

5,13,17-Trimethylhentriacontane

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| Inchi: | InChI=1S/C34H70/c1-6-8-10-11-12-13-14-15-16-17-19-22-28-33(4)30-25-31-34(5)29-24 |
| InchiKey: | ZZTUAFFOFVDNDY-UHFFFAOYSA-N |
| Formula: | C34H70 |
| SMILES: | CCCCCCCCCCCCCCC(C)CCCC(C)CCCCCCCC(C)CCCC |
| Mol. weight [g/mol]: | 478.92 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 228.08 | kJ/mol | Joback Method |
| hf | -760.93 | kJ/mol | Joback Method |
| hfus | 73.25 | kJ/mol | Joback Method |
| hvap | 90.11 | kJ/mol | Joback Method |
| log10ws | -13.33 | | Crippen Method |
| logp | 13.077 | | Crippen Method |
| mcvol | 489.920 | ml/mol | McGowan Method |
| pc | 503.18 | kPa | Joback Method |
| rinpol | 3205.00 | | NIST Webbook |
| rinpol | 3205.00 | | NIST Webbook |
| rinpol | 3205.00 | | NIST Webbook |
| tb | 976.00 | K | Joback Method |
| tc | 1219.59 | K | Joback Method |
| tf | 427.94 | K | Joback Method |
| vc | 1.921 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1756.49 | J/molxK | 976.00 | Joback Method |
| cpg | 1891.56 | J/molxK | 1178.99 | Joback Method |
| cpg | 1868.13 | J/molxK | 1138.39 | Joback Method |
| cpg | 1843.08 | J/molxK | 1097.80 | Joback Method |
| cpg | 1816.22 | J/molxK | 1057.20 | Joback Method |
| cpg | 1787.41 | J/molxK | 1016.60 | Joback Method |
| cpg | 1913.50 | J/molxK | 1219.59 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000099 | Paxs | 976.00 | Joback Method |
| dvisc | 0.0000145 | Paxs | 884.66 | Joback Method |
| dvisc | 0.0000233 | Paxs | 793.31 | Joback Method |
| dvisc | 0.0000422 | Paxs | 701.97 | Joback Method |
| dvisc | 0.0000913 | Paxs | 610.63 | Joback Method |
| dvisc | 0.0002594 | Paxs | 519.28 | Joback Method |
| dvisc | 0.0011513 | Paxs | 427.94 | 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=R505492&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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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