

10,14-Dimethyldotriacontane

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| Inchi: | InChI=1S/C34H70/c1-5-7-9-11-13-14-15-16-17-18-19-20-21-23-25-27-30-34(4)32-28-31 |
| InchiKey: | VUJQCCKRMXEIJS-UHFFFAOYSA-N |
| Formula: | C34H70 |
| SMILES: | CCCCCCCCCCCCCCCCCCCC(C)CCCC(C)CCCCCCCC |
| Mol. weight [g/mol]: | 478.92 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 230.52 | kJ/mol | Joback Method |
| hf | -755.65 | kJ/mol | Joback Method |
| hfus | 76.77 | kJ/mol | Joback Method |
| hvap | 90.50 | kJ/mol | Joback Method |
| log10ws | -13.57 | | Crippen Method |
| logp | 13.221 | | Crippen Method |
| mcvol | 489.920 | ml/mol | McGowan Method |
| pc | 501.37 | kPa | Joback Method |
| rinpol | 3254.00 | | NIST Webbook |
| rinpol | 3254.00 | | NIST Webbook |
| tb | 976.44 | K | Joback Method |
| tc | 1223.09 | K | Joback Method |
| tf | 442.94 | K | Joback Method |
| vc | 1.927 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1756.26 | J/molxK | 976.44 | Joback Method |
| cpg | 1787.61 | J/molxK | 1017.55 | Joback Method |
| cpg | 1816.81 | J/molxK | 1058.66 | Joback Method |
| cpg | 1844.04 | J/molxK | 1099.77 | Joback Method |
| cpg | 1869.45 | J/molxK | 1140.87 | Joback Method |
| cpg | 1893.20 | J/molxK | 1181.98 | Joback Method |
| cpg | 1915.47 | J/molxK | 1223.09 | Joback Method |
| dvisc | 0.0009072 | Paxs | 442.94 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0002342 | Paxs | 531.86 | Joback Method |
| dvisc | 0.0000891 | Paxs | 620.77 | Joback Method |
| dvisc | 0.0000432 | Paxs | 709.69 | Joback Method |
| dvisc | 0.0000246 | Paxs | 798.61 | Joback Method |
| dvisc | 0.0000157 | Paxs | 887.52 | Joback Method |
| dvisc | 0.0000109 | Paxs | 976.44 | 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=R530502&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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