

2,10-Dimethyltriacontane

Inchi: InChI=1S/C32H66/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-23-26-29-32(4)30-27
InchiKey: KXKXMFADLCPIM-UHFFFAOYSA-N
Formula: C32H66
SMILES: CCCCCCCCCCCCCCCCCCCCCC(C)CCCCCCCC(C)C
Mol. weight [g/mol]: 450.87

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | 213.68 | kJ/mol | Joback Method |
| hf | -714.37 | kJ/mol | Joback Method |
| hfus | 71.59 | kJ/mol | Joback Method |
| hvap | 86.05 | kJ/mol | Joback Method |
| log10ws | -12.73 | | Crippen Method |
| logp | 12.441 | | Crippen Method |
| mcvol | 461.740 | ml/mol | McGowan Method |
| pc | 547.43 | kPa | Joback Method |
| rinpol | 3095.00 | | NIST Webbook |
| rinpol | 3095.00 | | NIST Webbook |
| rinpol | 3099.00 | | NIST Webbook |
| rinpol | 3099.00 | | NIST Webbook |
| rinpol | 3099.00 | | NIST Webbook |
| tb | 930.68 | K | Joback Method |
| tc | 1153.00 | K | Joback Method |
| tf | 420.40 | K | Joback Method |
| vc | 1.815 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1618.68 | J/molxK | 930.68 | Joback Method |
| cpg | 1647.60 | J/molxK | 967.73 | Joback Method |
| cpg | 1674.72 | J/molxK | 1004.79 | Joback Method |
| cpg | 1700.16 | J/molxK | 1041.84 | Joback Method |
| cpg | 1724.04 | J/molxK | 1078.89 | Joback Method |

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|-------|-----------|---------|---------|---------------|
| cpg | 1746.45 | J/molxK | 1115.95 | Joback Method |
| cpg | 1767.52 | J/molxK | 1153.00 | Joback Method |
| dvisc | 0.0012543 | Paxs | 420.40 | Joback Method |
| dvisc | 0.0003218 | Paxs | 505.45 | Joback Method |
| dvisc | 0.0001222 | Paxs | 590.49 | Joback Method |
| dvisc | 0.0000592 | Paxs | 675.54 | Joback Method |
| dvisc | 0.0000337 | Paxs | 760.59 | Joback Method |
| dvisc | 0.0000215 | Paxs | 845.63 | Joback Method |
| dvisc | 0.0000149 | Paxs | 930.68 | 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=R179241&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 |
| hvac: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccvol: | 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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