

11,15-Dimethylhentriacontane

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|-----------------------------|---|
| Other names: | Hentriacontane, 11,15-dimethyl |
| Inchi: | InChI=1S/C33H68/c1-5-7-9-11-13-15-16-17-18-19-20-22-24-26-29-33(4)31-27-30-32(3)2 |
| InchiKey: | ZMPWPQZOFSYFKN-UHFFFAOYSA-N |
| Formula: | C33H68 |
| SMILES: | CCCCCCCCCCCCCCCC(C)CCCC(C)CCCCCCCCC |
| Mol. weight [g/mol]: | 464.89 |
| CAS: | 56987-74-7 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 222.10 | kJ/mol | Joback Method |
| hf | -735.01 | kJ/mol | Joback Method |
| hfus | 74.18 | kJ/mol | Joback Method |
| hvap | 88.28 | kJ/mol | Joback Method |
| log10ws | -13.15 | | Crippen Method |
| logp | 12.831 | | Crippen Method |
| mcvol | 475.830 | ml/mol | McGowan Method |
| pc | 523.65 | kPa | Joback Method |
| rinpol | 3145.00 | | NIST Webbook |
| rinpol | 3145.00 | | NIST Webbook |
| rinpol | 3162.00 | | NIST Webbook |
| rinpol | 3146.00 | | NIST Webbook |
| rinpol | 3145.00 | | NIST Webbook |
| rinpol | 3144.00 | | NIST Webbook |
| rinpol | 3155.00 | | NIST Webbook |
| rinpol | 3159.00 | | NIST Webbook |
| rinpol | 3161.00 | | NIST Webbook |
| rinpol | 3152.00 | | NIST Webbook |
| rinpol | 3155.00 | | NIST Webbook |
| tb | 953.56 | K | Joback Method |
| tc | 1187.32 | K | Joback Method |
| tf | 431.67 | K | Joback Method |
| vc | 1.871 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1687.29 | J/molxK | 953.56 | Joback Method |
| cpg | 1717.36 | J/molxK | 992.52 | Joback Method |
| cpg | 1745.48 | J/molxK | 1031.48 | Joback Method |
| cpg | 1771.77 | J/molxK | 1070.44 | Joback Method |
| cpg | 1796.37 | J/molxK | 1109.40 | Joback Method |
| cpg | 1819.42 | J/molxK | 1148.36 | Joback Method |
| cpg | 1841.06 | J/molxK | 1187.32 | Joback Method |
| dvisc | 0.0010674 | Paxs | 431.67 | Joback Method |
| dvisc | 0.0002747 | Paxs | 518.65 | Joback Method |
| dvisc | 0.0001044 | Paxs | 605.63 | Joback Method |
| dvisc | 0.0000506 | Paxs | 692.62 | Joback Method |
| dvisc | 0.0000288 | Paxs | 779.60 | Joback Method |
| dvisc | 0.0000184 | Paxs | 866.58 | Joback Method |
| dvisc | 0.0000127 | Paxs | 953.56 | 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=C56987747&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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 |

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|----------------|----------------------------------|
| 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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