

Tetratriacontane, 12,16-dimethyl

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|----------------------|--|
| Inchi: | InChI=1S/C46H94/c1-5-7-9-11-13-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-3 |
| InchiKey: | KGDSZZNZGDKTTD-UHFFFAOYSA-N |
| Formula: | C46H94 |
| SMILES: | CCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CCC(C)CCCCCCCCCCC |
| Mol. weight [g/mol]: | 647.24 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | 331.56 | kJ/mol | Joback Method |
| hf | -1003.33 | kJ/mol | Joback Method |
| hfus | 107.85 | kJ/mol | Joback Method |
| hvap | 117.21 | kJ/mol | Joback Method |
| log10ws | -18.59 | | Crippen Method |
| logp | 17.902 | | Crippen Method |
| mcvol | 659.000 | ml/mol | McGowan Method |
| pc | 316.84 | kPa | Joback Method |
| rinsol | 3460.00 | | NIST Webbook |
| tb | 1251.00 | K | Joback Method |
| tc | 1825.60 | K | Joback Method |
| tf | 578.18 | K | Joback Method |
| vc | 2.599 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 2602.99 | J/molxK | 1251.00 | Joback Method |
| cpg | 2664.31 | J/molxK | 1346.77 | Joback Method |
| cpg | 2719.70 | J/molxK | 1442.53 | Joback Method |
| cpg | 2772.00 | J/molxK | 1538.30 | Joback Method |
| cpg | 2824.03 | J/molxK | 1634.07 | Joback Method |
| cpg | 2878.59 | J/molxK | 1729.83 | Joback Method |
| cpg | 2938.52 | J/molxK | 1825.60 | Joback Method |
| dvisc | 0.0001195 | Paxs | 578.18 | Joback Method |
| dvisc | 0.0000318 | Paxs | 690.32 | Joback Method |

| | | | | |
|-------|-----------|------|---------|---------------|
| dvisc | 0.0000122 | Paxs | 802.45 | Joback Method |
| dvisc | 0.0000059 | Paxs | 914.59 | Joback Method |
| dvisc | 0.0000034 | Paxs | 1026.73 | Joback Method |
| dvisc | 0.0000022 | Paxs | 1138.86 | Joback Method |
| dvisc | 0.0000015 | Paxs | 1251.00 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R584633&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 |
| 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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