

Triacontane, 5-methyl

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|----------------------|---|
| Inchi: | InChI=1S/C31H64/c1-4-6-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27- |
| InchiKey: | ISOFMGGSUGTXSI-UHFFFAOYSA-N |
| Formula: | C31H64 |
| SMILES: | CCCCCCCCCCCCCCCCCCCCCCCCCCCC(C)CCCC |
| Mol. weight [g/mol]: | 436.84 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 207.70 | kJ/mol | Joback Method |
| hf | -688.45 | kJ/mol | Joback Method |
| hfus | 72.52 | kJ/mol | Joback Method |
| hvap | 84.21 | kJ/mol | Joback Method |
| log10ws | -12.56 | | Crippen Method |
| logp | 12.195 | | Crippen Method |
| mcvol | 447.650 | ml/mol | McGowan Method |
| pc | 570.69 | kPa | Joback Method |
| rinsol | 3145.00 | | NIST Webbook |
| rinsol | 3145.00 | | NIST Webbook |
| tb | 908.24 | K | Joback Method |
| tc | 1122.22 | K | Joback Method |
| tf | 424.13 | K | Joback Method |
| vc | 1.766 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1550.16 | J/molxK | 908.24 | Joback Method |
| cpg | 1675.10 | J/molxK | 1086.56 | Joback Method |
| cpg | 1653.05 | J/molxK | 1050.89 | Joback Method |
| cpg | 1629.63 | J/molxK | 1015.23 | Joback Method |
| cpg | 1604.74 | J/molxK | 979.57 | Joback Method |
| cpg | 1578.28 | J/molxK | 943.90 | Joback Method |
| cpg | 1695.88 | J/molxK | 1122.22 | Joback Method |
| dvisc | 0.0000191 | Paxs | 908.24 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000271 | Paxs | 827.56 | Joback Method |
| dvisc | 0.0000415 | Paxs | 746.87 | Joback Method |
| dvisc | 0.0000704 | Paxs | 666.18 | Joback Method |
| dvisc | 0.0001384 | Paxs | 585.50 | Joback Method |
| dvisc | 0.0003377 | Paxs | 504.81 | Joback Method |
| dvisc | 0.0011568 | Paxs | 424.13 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R283706&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 |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |

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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