

Heptatricosane, 11,25-dimethyl

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|-----------------------------|--|
| Inchi: | InChI=1S/C39H80/c1-5-7-9-11-13-15-19-23-27-31-35-39(4)37-33-29-25-21-18-16-17-20 |
| InchiKey: | JBPUUKJMFDXPG-UHFFFAOYSA-N |
| Formula: | C39H80 |
| SMILES: | CCCCCCCCCCCC(C)CCCCCCCCCCCC(C)CCCCCCCC |
| Mol. weight [g/mol]: | 549.05 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 272.62 | kJ/mol | Joback Method |
| hf | -858.85 | kJ/mol | Joback Method |
| hfus | 89.72 | kJ/mol | Joback Method |
| hvap | 101.63 | kJ/mol | Joback Method |
| log10ws | -15.66 | | Crippen Method |
| logp | 15.172 | | Crippen Method |
| mcvol | 560.370 | ml/mol | McGowan Method |
| pc | 408.78 | kPa | Joback Method |
| rinsol | 3758.00 | | NIST Webbook |
| tb | 1090.84 | K | Joback Method |
| tc | 1428.32 | K | Joback Method |
| tf | 499.29 | K | Joback Method |
| vc | 2.208 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 2105.46 | J/molxK | 1090.84 | Joback Method |
| cpg | 2275.06 | J/molxK | 1372.07 | Joback Method |
| cpg | 2246.16 | J/molxK | 1315.83 | Joback Method |
| cpg | 2215.23 | J/molxK | 1259.58 | Joback Method |
| cpg | 2181.80 | J/molxK | 1203.33 | Joback Method |
| cpg | 2145.37 | J/molxK | 1147.09 | Joback Method |
| cpg | 2302.42 | J/molxK | 1428.32 | Joback Method |
| dvisc | 0.0000048 | Paxs | 1090.84 | Joback Method |
| dvisc | 0.0000070 | Paxs | 992.25 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000110 | Paxs | 893.66 | Joback Method |
| dvisc | 0.0000192 | Paxs | 795.06 | Joback Method |
| dvisc | 0.0000396 | Paxs | 696.47 | Joback Method |
| dvisc | 0.0001036 | Paxs | 597.88 | Joback Method |
| dvisc | 0.0003958 | Paxs | 499.29 | 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=R608670&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 |
| 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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