# 6,10-Dimethylhexacosane

**Inchi:** InChI=1S/C28H58/c1-5-7-9-10-11-12-13-14-15-16-17-18-19-21-24-28(4)26-22-25-27(3)2
**InchiKey:** SODIUORJLXNGKA-UHFFFAOYSA-N
**Formula:** C28H58
**SMILES:** CCCCCCCCCCCCCCCCC(C)CCCC(C)CCCCC
**Mol. weight [g/mol]:** 394.76

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 180.00 | kJ/mol | Joback Method |
| hf | -631.81 | kJ/mol | Joback Method |
| hfus | 61.23 | kJ/mol | Joback Method |
| hvap | 77.15 | kJ/mol | Joback Method |
| log10ws | -11.06 | | Crippen Method |
| logp | 10.881 | | Crippen Method |
| mcvol | 405.380 | ml/mol | McGowan Method |
| pc | 660.85 | kPa | Joback Method |
| rinpol | 2678.00 | | NIST Webbook |
| rinpol | 2678.00 | | NIST Webbook |
| rinpol | 2685.00 | | NIST Webbook |
| rinpol | 2678.00 | | NIST Webbook |
| tb | 839.16 | K | Joback Method |
| tc | 1028.00 | K | Joback Method |
| tf | 375.32 | K | Joback Method |
| vc | 1.591 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1348.71 | J/mol×K | 839.16 | Joback Method |
| cpg | 1462.77 | J/mol×K | 996.53 | Joback Method |
| cpg | 1442.36 | J/mol×K | 965.06 | Joback Method |
| cpg | 1420.81 | J/mol×K | 933.58 | Joback Method |
| cpg | 1398.06 | J/mol×K | 902.11 | Joback Method |
| cpg | 1374.05 | J/mol×K | 870.63 | Joback Method |

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|---|---|---|---|---|
| cpg | 1482.09 | J/mol×K | 1028.00 | Joback Method |
| dvisc | 0.0000275 | Pa×s | 839.16 | Joback Method |
| dvisc | 0.0000396 | Pa×s | 761.85 | Joback Method |
| dvisc | 0.0000620 | Pa×s | 684.55 | Joback Method |
| dvisc | 0.0001088 | Pa×s | 607.24 | Joback Method |
| dvisc | 0.0002249 | Pa×s | 529.93 | Joback Method |
| dvisc | 0.0005956 | Pa×s | 452.63 | Joback Method |
| dvisc | 0.0023569 | Pa×s | 375.32 | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R505709&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **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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