# 1-Heptadecene, 2,4,6,8,10,12,14-heptamethyl

**Inchi:** InChI=1S/C24H48/c1-10-11-19(4)13-21(6)15-23(8)17-24(9)16-22(7)14-20(5)12-18(2)3/h1
**InchiKey:** XOMQDLODORPXCA-UHFFFAOYSA-N
**Formula:** C24H48
**SMILES:** C=C(C)CC(C)CC(C)CC(C)CC(C)CC(C)CC(C)CCC
**Mol. weight [g/mol]:** 336.64

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 215.85 | kJ/mol | Joback Method |
| hf | -454.73 | kJ/mol | Joback Method |
| hfus | 34.19 | kJ/mol | Joback Method |
| hvap | 66.10 | kJ/mol | Joback Method |
| log10ws | -8.27 | | Crippen Method |
| logp | 8.520 | | Crippen Method |
| mcvol | 344.720 | ml/mol | McGowan Method |
| pc | 851.47 | kPa | Joback Method |
| rinpol | 1973.00 | | NIST Webbook |
| rinpol | 1973.00 | | NIST Webbook |
| tb | 742.44 | K | Joback Method |
| tc | 919.57 | K | Joback Method |
| tf | 254.52 | K | Joback Method |
| vc | 1.325 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 1063.26 | J/mol×K | 742.44 | Joback Method |
| cpg | 1086.61 | J/mol×K | 771.96 | Joback Method |
| cpg | 1108.81 | J/mol×K | 801.48 | Joback Method |
| cpg | 1129.93 | J/mol×K | 831.00 | Joback Method |
| cpg | 1149.99 | J/mol×K | 860.53 | Joback Method |
| cpg | 1169.05 | J/mol×K | 890.05 | Joback Method |
| cpg | 1187.15 | J/mol×K | 919.57 | 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=R568131&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

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|---|---|
| **cpg:** | Ideal gas heat capacity |
| **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 |