# Heptadecane, 2,6,10,15-tetramethyl-

**Inchi:** InChI=1S/C21H44/c1-7-19(4)13-8-9-14-20(5)16-11-17-21(6)15-10-12-18(2)3/h18-21H,7-
**InchiKey:** ZZEQNXPBKOFTBG-UHFFFAOYSA-N
**Formula:** C21H44
**SMILES:** CCC(C)CCCCC(C)CCCC(C)CCCC(C)C
**Mol. weight [g/mol]:** 296.57
**CAS:** 54833-48-6

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 116.18 | kJ/mol | Joback Method |
| hf | -497.89 | kJ/mol | Joback Method |
| hfus | 36.05 | kJ/mol | Joback Method |
| hvap | 60.79 | kJ/mol | Joback Method |
| log10ws | -7.65 | | Crippen Method |
| logp | 7.862 | | Crippen Method |
| mcvol | 306.750 | ml/mol | McGowan Method |
| pc | 975.34 | kPa | Joback Method |
| rinpol | 1885.00 | | NIST Webbook |
| rinpol | 1914.00 | | NIST Webbook |
| rinpol | 1893.00 | | NIST Webbook |
| rinpol | 1893.00 | | NIST Webbook |
| rinpol | 1914.00 | | NIST Webbook |
| ripol | 1660.00 | | NIST Webbook |
| ripol | 1660.00 | | NIST Webbook |
| tb | 678.12 | K | Joback Method |
| tc | 846.24 | K | Joback Method |
| tf | 266.43 | K | Joback Method |
| vc | 1.188 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 902.12 | J/mol×K | 678.12 | Joback Method |
| cpg | 924.44 | J/mol×K | 706.14 | Joback Method |

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|---|---|---|---|---|
| cpg | 945.77 | J/mol×K | 734.16 | Joback Method |
| cpg | 966.15 | J/mol×K | 762.18 | Joback Method |
| cpg | 985.59 | J/mol×K | 790.20 | Joback Method |
| cpg | 1004.15 | J/mol×K | 818.22 | Joback Method |
| cpg | 1021.83 | J/mol×K | 846.24 | Joback Method |
| dvisc | 0.0164078 | Pa×s | 266.43 | Joback Method |
| dvisc | 0.0025167 | Pa×s | 335.04 | Joback Method |
| dvisc | 0.0007301 | Pa×s | 403.66 | Joback Method |
| dvisc | 0.0003035 | Pa×s | 472.27 | Joback Method |
| dvisc | 0.0001576 | Pa×s | 540.89 | Joback Method |
| dvisc | 0.0000949 | Pa×s | 609.50 | Joback Method |
| dvisc | 0.0000633 | Pa×s | 678.12 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C54833486&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 |
| **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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |

**vc:** Critical Volume

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