# 2,4,6,10-tetramethylpentadecane

**Inchi:** InChI=1S/C19H40/c1-7-8-9-11-17(4)12-10-13-18(5)15-19(6)14-16(2)3/h16-19H,7-15H2,1
**InchiKey:** RLENBLIPUDEJMW-UHFFFAOYSA-N
**Formula:** C19H40
**SMILES:** CCCCCC(C)CCCC(C)CC(C)CC(C)C
**Mol. weight [g/mol]:** 268.52

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 99.34 | kJ/mol | Joback Method |
| hf | -456.61 | kJ/mol | Joback Method |
| hfus | 30.87 | kJ/mol | Joback Method |
| hvap | 56.34 | kJ/mol | Joback Method |
| log10ws | -6.81 | | Crippen Method |
| logp | 7.082 | | Crippen Method |
| mcvol | 278.570 | ml/mol | McGowan Method |
| pc | 1103.74 | kPa | Joback Method |
| ripol | 1655.00 | | NIST Webbook |
| tb | 632.36 | K | Joback Method |
| tc | 799.95 | K | Joback Method |
| tf | 243.89 | K | Joback Method |
| vc | 1.075 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 782.62 | J/mol×K | 632.36 | Joback Method |
| cpg | 804.34 | J/mol×K | 660.29 | Joback Method |
| cpg | 825.12 | J/mol×K | 688.22 | Joback Method |
| cpg | 844.99 | J/mol×K | 716.16 | Joback Method |
| cpg | 863.98 | J/mol×K | 744.09 | Joback Method |
| cpg | 882.11 | J/mol×K | 772.02 | Joback Method |
| cpg | 899.42 | J/mol×K | 799.95 | Joback Method |
| dvisc | 0.0238146 | Pa×s | 243.89 | Joback Method |
| dvisc | 0.0034361 | Pa×s | 308.63 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0009702 | Pa×s | 373.38 | Joback Method |
| dvisc | 0.0003981 | Pa×s | 438.12 | Joback Method |
| dvisc | 0.0002055 | Pa×s | 502.87 | Joback Method |
| dvisc | 0.0001233 | Pa×s | 567.62 | Joback Method |
| dvisc | 0.0000822 | Pa×s | 632.36 | Joback Method |

# Sources

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|---|---|
| **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 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R403559&Units=SI |

# 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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |