# 1-Pentadecene, 7-methyl

**Inchi:** InChI=1S/C16H32/c1-4-6-8-10-11-13-15-16(3)14-12-9-7-5-2/h5,16H,2,4,6-15H2,1,3H3
**InchiKey:** OFKFVZWHGFWAJF-UHFFFAOYSA-N
**Formula:** C16H32
**SMILES:** C=CCCCCC(C)CCCCCCCC
**Mol. weight [g/mol]:** 224.43

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 169.24 | kJ/mol | Joback Method |
| hf | -253.42 | kJ/mol | Joback Method |
| hfus | 32.39 | kJ/mol | Joback Method |
| hvap | 50.15 | kJ/mol | Joback Method |
| log10ws | -6.13 | | Crippen Method |
| logp | 6.120 | | Crippen Method |
| mcvol | 232.000 | ml/mol | McGowan Method |
| pc | 1367.69 | kPa | Joback Method |
| rinpol | 1539.00 | | NIST Webbook |
| rinpol | 1539.00 | | NIST Webbook |
| tb | 561.72 | K | Joback Method |
| tc | 725.31 | K | Joback Method |
| tf | 253.32 | K | Joback Method |
| vc | 0.906 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 591.12 | J/mol×K | 561.72 | Joback Method |
| cpg | 610.21 | J/mol×K | 588.99 | Joback Method |
| cpg | 628.52 | J/mol×K | 616.25 | Joback Method |
| cpg | 646.08 | J/mol×K | 643.52 | Joback Method |
| cpg | 662.89 | J/mol×K | 670.78 | Joback Method |
| cpg | 679.00 | J/mol×K | 698.05 | Joback Method |
| cpg | 694.42 | J/mol×K | 725.31 | Joback Method |
| dvisc | 0.0071217 | Pa×s | 253.32 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0021629 | Pa×s | 304.72 | Joback Method |
| dvisc | 0.0009266 | Pa×s | 356.12 | Joback Method |
| dvisc | 0.0004916 | Pa×s | 407.52 | Joback Method |
| dvisc | 0.0003006 | Pa×s | 458.92 | Joback Method |
| dvisc | 0.0002030 | Pa×s | 510.32 | Joback Method |
| dvisc | 0.0001472 | Pa×s | 561.72 | Joback Method |

# Sources

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|---|---|
| **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=R47027&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |