# 2-Dodecene, 2,6-dimethyl

**Inchi:** InChI=1S/C14H28/c1-5-6-7-8-11-14(4)12-9-10-13(2)3/h10,14H,5-9,11-12H2,1-4H3
**InchiKey:** RQILLHDCUHIGST-UHFFFAOYSA-N
**Formula:** C14H28
**SMILES:** CCCCCCC(C)CCC=C(C)C
**Mol. weight [g/mol]:** 196.37

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 136.23 | kJ/mol | Joback Method |
| hf | -230.14 | kJ/mol | Joback Method |
| hfus | 27.39 | kJ/mol | Joback Method |
| hvap | 46.41 | kJ/mol | Joback Method |
| log10ws | -5.29 | | Crippen Method |
| logp | 5.339 | | Crippen Method |
| mcvol | 203.820 | ml/mol | McGowan Method |
| pc | 1603.85 | kPa | Joback Method |
| rinpol | 1325.00 | | NIST Webbook |
| rinpol | 1325.00 | | NIST Webbook |
| tb | 523.32 | K | Joback Method |
| tc | 695.07 | K | Joback Method |
| tf | 213.50 | K | Joback Method |
| vc | 0.794 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 488.89 | J/mol×K | 523.32 | Joback Method |
| cpg | 507.42 | J/mol×K | 551.95 | Joback Method |
| cpg | 525.15 | J/mol×K | 580.57 | Joback Method |
| cpg | 542.11 | J/mol×K | 609.20 | Joback Method |
| cpg | 558.32 | J/mol×K | 637.82 | Joback Method |
| cpg | 573.82 | J/mol×K | 666.45 | Joback Method |
| cpg | 588.63 | J/mol×K | 695.07 | 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=R47166&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 |
| **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 |