# 2,4,6,8-Tetramethyl-1-undecene

**Inchi:** InChI=1S/C15H30/c1-7-8-13(4)10-15(6)11-14(5)9-12(2)3/h13-15H,2,7-11H2,1,3-6H3
**InchiKey:** LBMKCDUBYFXSNQ-UHFFFAOYSA-N
**Formula:** C15H30
**SMILES:** C=C(C)CC(C)CC(C)CC(C)CCC
**Mol. weight [g/mol]:** 210.40
**CAS:** 59920-26-2

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 147.39 | kJ/mol | Joback Method |
| hf | -253.13 | kJ/mol | Joback Method |
| hfus | 21.45 | kJ/mol | Joback Method |
| hvap | 47.23 | kJ/mol | Joback Method |
| log10ws | -5.23 | | Crippen Method |
| logp | 5.441 | | Crippen Method |
| mcvol | 217.910 | ml/mol | McGowan Method |
| pc | 1494.19 | kPa | Joback Method |
| ripol | 1285.00 | | NIST Webbook |
| ripol | 1285.00 | | NIST Webbook |
| tb | 537.84 | K | Joback Method |
| tc | 710.83 | K | Joback Method |
| tf | 198.09 | K | Joback Method |
| vc | 0.840 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 538.31 | J/mol×K | 537.84 | Joback Method |
| cpg | 557.98 | J/mol×K | 566.67 | Joback Method |
| cpg | 576.81 | J/mol×K | 595.50 | Joback Method |
| cpg | 594.80 | J/mol×K | 624.34 | Joback Method |
| cpg | 612.00 | J/mol×K | 653.17 | Joback Method |
| cpg | 628.43 | J/mol×K | 682.00 | Joback Method |
| cpg | 644.11 | J/mol×K | 710.83 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C59920262&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

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