# 2-Undecene, 4,6,8-trimethyl

**Inchi:** InChI=1S/C14H28/c1-6-8-12(3)10-14(5)11-13(4)9-7-2/h6,8,12-14H,7,9-11H2,1-5H3/b8-6
**InchiKey:** XLHHFMMDEMBZND-SOFGYWHQSA-N
**Formula:** C14H28
**SMILES:** CC=CC(C)CC(C)CC(C)CCC
**Mol. weight [g/mol]:** 196.37

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 139.90 | kJ/mol | Joback Method |
| hf | -230.91 | kJ/mol | Joback Method |
| hfus | 21.65 | kJ/mol | Joback Method |
| hvap | 45.55 | kJ/mol | Joback Method |
| log10ws | -4.81 | | Crippen Method |
| logp | 5.051 | | Crippen Method |
| mcvol | 203.820 | ml/mol | McGowan Method |
| pc | 1618.07 | kPa | Joback Method |
| rinpol | 1220.00 | | NIST Webbook |
| tb | 522.56 | K | Joback Method |
| tc | 698.17 | K | Joback Method |
| tf | 197.46 | K | Joback Method |
| vc | 0.781 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 489.43 | J/mol×K | 522.56 | Joback Method |
| cpg | 576.74 | J/mol×K | 668.90 | Joback Method |
| cpg | 560.86 | J/mol×K | 639.63 | Joback Method |
| cpg | 544.22 | J/mol×K | 610.36 | Joback Method |
| cpg | 526.79 | J/mol×K | 581.10 | Joback Method |
| cpg | 508.54 | J/mol×K | 551.83 | Joback Method |
| cpg | 591.89 | J/mol×K | 698.17 | Joback Method |
| dvisc | 0.0001301 | Pa×s | 522.56 | Joback Method |
| dvisc | 0.0001903 | Pa×s | 468.38 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0003074 | Pa×s | 414.19 | Joback Method |
| dvisc | 0.0005740 | Pa×s | 360.01 | Joback Method |
| dvisc | 0.0013372 | Pa×s | 305.83 | Joback Method |
| dvisc | 0.0044836 | Pa×s | 251.64 | Joback Method |
| dvisc | 0.0292014 | Pa×s | 197.46 | Joback Method |

# Sources

**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=R568364&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
**rinpol:** Non-polar retention indices
**tb:** Normal Boiling Point Temperature
**tc:** Critical Temperature
**tf:** Normal melting (fusion) point
**vc:** Critical Volume