# 2,6-Dimethyl-1-aceto-naphthone

**Inchi:** InChI=1S/C14H14O/c1-9-4-7-13-12(8-9)6-5-10(2)14(13)11(3)15/h4-8H,1-3H3
**InchiKey:** KZGJIWXKJCZGBK-UHFFFAOYSA-N
**Formula:** C14H14O
**SMILES:** CC(=O)c1c(C)ccc2cc(C)ccc12
**Mol. weight [g/mol]:** 198.26
**CAS:** 24894-63-1

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 128.25 | kJ/mol | Joback Method |
| hf | -51.68 | kJ/mol | Joback Method |
| hfus | 23.51 | kJ/mol | Joback Method |
| hvap | 59.41 | kJ/mol | Joback Method |
| log10ws | -4.89 | | Crippen Method |
| logp | 3.659 | | Crippen Method |
| mcvol | 166.470 | ml/mol | McGowan Method |
| pc | 2581.96 | kPa | Joback Method |
| tb | 634.19 | K | Joback Method |
| tc | 865.34 | K | Joback Method |
| tf | 394.15 | K | Joback Method |
| vc | 0.639 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 407.25 | J/mol×K | 634.19 | Joback Method |
| cpg | 421.76 | J/mol×K | 672.71 | Joback Method |
| cpg | 435.31 | J/mol×K | 711.24 | Joback Method |
| cpg | 447.95 | J/mol×K | 749.76 | Joback Method |
| cpg | 459.74 | J/mol×K | 788.29 | Joback Method |
| cpg | 470.75 | J/mol×K | 826.81 | Joback Method |
| cpg | 481.04 | J/mol×K | 865.34 | Joback Method |
| dvisc | 0.0012646 | Pa×s | 394.15 | Joback Method |
| dvisc | 0.0008996 | Pa×s | 434.16 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0006778 | Pa×s | 474.16 | Joback Method |
| dvisc | 0.0005336 | Pa×s | 514.17 | Joback Method |
| dvisc | 0.0004349 | Pa×s | 554.18 | Joback Method |
| dvisc | 0.0003644 | Pa×s | 594.18 | Joback Method |
| dvisc | 0.0003121 | Pa×s | 634.19 | 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=C24894631&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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |