# 2,7-Dimethyl-2,6-octadien-4-ol

**Other names:** 2,6-Octadien-4-ol, 2,7-dimethyl
**Inchi:** InChI=1S/C10H18O/c1-8(2)5-6-10(11)7-9(3)4/h5,7,10-11H,6H2,1-4H3
**InchiKey:** UJWFFQNWDJNWLH-UHFFFAOYSA-N
**Formula:** C10H18O
**SMILES:** CC(C)=CCC(O)C=C(C)C
**Mol. weight [g/mol]:** 154.25
**CAS:** 37665-99-9

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 37.40 | kJ/mol | Joback Method |
| hf | -192.38 | kJ/mol | Joback Method |
| hfus | 20.00 | kJ/mol | Joback Method |
| hvap | 54.22 | kJ/mol | Joback Method |
| log10ws | -3.09 | | Crippen Method |
| logp | 2.670 | | Crippen Method |
| mcvol | 149.030 | ml/mol | McGowan Method |
| pc | 2592.49 | kPa | Joback Method |
| tb | 528.02 | K | Joback Method |
| tc | 708.51 | K | Joback Method |
| tf | 210.20 | K | Joback Method |
| vc | 0.571 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 344.72 | J/mol×K | 528.02 | Joback Method |
| cpg | 357.83 | J/mol×K | 558.10 | Joback Method |
| cpg | 370.28 | J/mol×K | 588.18 | Joback Method |
| cpg | 382.10 | J/mol×K | 618.27 | Joback Method |
| cpg | 393.33 | J/mol×K | 648.35 | Joback Method |
| cpg | 404.01 | J/mol×K | 678.43 | Joback Method |
| cpg | 414.17 | J/mol×K | 708.51 | Joback Method |

# Sources

| | |
|---|---|
| **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=C37665999&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |