# 2,6-Dimethyl-2,7-octadien-1-ol

**Inchi:** InChI=1S/C10H18O/c1-4-9(2)6-5-7-10(3)8-11/h4,7,9,11H,1,5-6,8H2,2-3H3/b10-7+
**InchiKey:** ARSUYSCIFANSEF-JXMROGBWSA-N
**Formula:** C10H18O
**SMILES:** C=CC(C)CCC=C(C)CO
**Mol. weight [g/mol]:** 154.25
**CAS:** 55685-41-1

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 53.57 | kJ/mol | Joback Method |
| hf | -174.38 | kJ/mol | Joback Method |
| hfus | 19.83 | kJ/mol | Joback Method |
| hvap | 53.51 | kJ/mol | Joback Method |
| log10ws | -2.74 | | Crippen Method |
| logp | 2.527 | | Crippen Method |
| mcvol | 149.030 | ml/mol | McGowan Method |
| pc | 2553.34 | kPa | Joback Method |
| tb | 520.66 | K | Joback Method |
| tc | 694.13 | K | Joback Method |
| tf | 227.48 | K | Joback Method |
| vc | 0.571 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 344.14 | J/mol×K | 520.66 | Joback Method |
| cpg | 356.93 | J/mol×K | 549.57 | Joback Method |
| cpg | 369.11 | J/mol×K | 578.48 | Joback Method |
| cpg | 380.71 | J/mol×K | 607.40 | Joback Method |
| cpg | 391.77 | J/mol×K | 636.31 | Joback Method |
| cpg | 402.31 | J/mol×K | 665.22 | Joback Method |
| cpg | 412.35 | J/mol×K | 694.13 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C55685411&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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# 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 |