# dehydrolinalool oxide

**Inchi:** InChI=1S/C10H16O/c1-5-10(4)8-6-7-9(2,3)11-10/h5-7H,1,8H2,2-4H3
**InchiKey:** XFDJWESOIHLOCV-UHFFFAOYSA-N
**Formula:** C10H16O
**SMILES:** C=CC1(C)CC=CC(C)(C)O1
**Mol. weight [g/mol]:** 152.23

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 70.76 | kJ/mol | Joback Method |
| hf | -134.06 | kJ/mol | Joback Method |
| hfus | 9.89 | kJ/mol | Joback Method |
| hvap | 39.80 | kJ/mol | Joback Method |
| log10ws | -2.92 | | Crippen Method |
| logp | 2.686 | | Crippen Method |
| mcvol | 138.170 | ml/mol | McGowan Method |
| pc | 2931.34 | kPa | Joback Method |
| ripol | 1460.00 | | NIST Webbook |
| tb | 466.35 | K | Joback Method |
| tc | 686.95 | K | Joback Method |
| tf | 278.97 | K | Joback Method |
| vc | 0.511 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 302.34 | J/mol×K | 466.35 | Joback Method |
| cpg | 320.29 | J/mol×K | 503.12 | Joback Method |
| cpg | 336.75 | J/mol×K | 539.88 | Joback Method |
| cpg | 351.92 | J/mol×K | 576.65 | Joback Method |
| cpg | 366.02 | J/mol×K | 613.42 | Joback Method |
| cpg | 379.23 | J/mol×K | 650.19 | Joback Method |
| cpg | 391.79 | J/mol×K | 686.95 | 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=R318931&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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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