# 4-((1E)-3-Hydroxy-1-propenyl)-2-methoxyphenol

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|---|---|
| **Other names:** | (E)-Conipheryl alcohol |
| | 2-Propen-1-ol, 3-(4-hydroxy-3-methoxyphenyl), (E)- |
| **Inchi:** | InChI=1S/C10H12O3/c1-13-10-7-8(3-2-6-11)4-5-9(10)12/h2-5,7,11-12H,6H2,1H3/b3-2+ |
| **InchiKey:** | JMFRWRFFLBVWSI-NSCUHMNNSA-N |
| **Formula:** | C10H12O3 |
| **SMILES:** | COc1cc(C=CCO)ccc1O |
| **Mol. weight [g/mol]:** | 180.20 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -180.12 | kJ/mol | Joback Method |
| hf | -369.21 | kJ/mol | Joback Method |
| hfus | 26.57 | kJ/mol | Joback Method |
| hvap | 72.85 | kJ/mol | Joback Method |
| log10ws | -1.65 | | Crippen Method |
| logp | 1.406 | | Crippen Method |
| mcvol | 141.310 | ml/mol | McGowan Method |
| pc | 3975.52 | kPa | Joback Method |
| tb | 659.24 | K | Joback Method |
| tc | 869.04 | K | Joback Method |
| tf | 431.09 | K | Joback Method |
| vc | 0.470 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 361.86 | J/mol×K | 659.24 | Joback Method |
| cpg | 407.27 | J/mol×K | 834.08 | Joback Method |
| cpg | 399.09 | J/mol×K | 799.11 | Joback Method |
| cpg | 390.53 | J/mol×K | 764.14 | Joback Method |
| cpg | 381.51 | J/mol×K | 729.17 | Joback Method |
| cpg | 371.97 | J/mol×K | 694.21 | Joback Method |
| cpg | 415.12 | J/mol×K | 869.04 | Joback Method |
| dvisc | 0.0000056 | Pa×s | 659.24 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0000094 | Pa×s | 621.22 | Joback Method |
| dvisc | 0.0000168 | Pa×s | 583.19 | Joback Method |
| dvisc | 0.0000327 | Pa×s | 545.16 | Joback Method |
| dvisc | 0.0000702 | Pa×s | 507.14 | Joback Method |
| dvisc | 0.0001709 | Pa×s | 469.12 | Joback Method |
| dvisc | 0.0004866 | Pa×s | 431.09 | Joback Method |

# Sources

| | |
|---|---|
| **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=U297955&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |

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