# Osmorhizol

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|---|---|
| **Other names:** | 1-Allyl-2,4-dimethoxybenzene |
| | Benzene, 1-(2-propenyl)-2,4-dimethoxy |
| **Inchi:** | InChI=1S/C11H14O2/c1-4-5-9-6-7-10(12-2)8-11(9)13-3/h4,6-8H,1,5H2,2-3H3 |
| **InchiKey:** | HZLYHZSHPUFYAR-UHFFFAOYSA-N |
| **Formula:** | C11H14O2 |
| **SMILES:** | C=CCc1ccc(OC)cc1OC |
| **Mol. weight [g/mol]:** | 178.23 |
| **CAS:** | 3698-23-5 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 12.73 | kJ/mol | Joback Method |
| hf | -195.79 | kJ/mol | Joback Method |
| hfus | 18.61 | kJ/mol | Joback Method |
| hvap | 47.83 | kJ/mol | Joback Method |
| log10ws | -2.79 | | Crippen Method |
| logp | 2.432 | | Crippen Method |
| mcvol | 149.530 | ml/mol | McGowan Method |
| pc | 2589.85 | kPa | Joback Method |
| rinpol | 1322.00 | | NIST Webbook |
| tb | 529.24 | K | Joback Method |
| tc | 734.40 | K | Joback Method |
| tf | 307.89 | K | Joback Method |
| vc | 0.560 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 332.58 | J/mol×K | 529.24 | Joback Method |
| cpg | 346.58 | J/mol×K | 563.43 | Joback Method |
| cpg | 359.96 | J/mol×K | 597.63 | Joback Method |
| cpg | 372.71 | J/mol×K | 631.82 | Joback Method |
| cpg | 384.84 | J/mol×K | 666.01 | Joback Method |
| cpg | 396.35 | J/mol×K | 700.21 | Joback Method |

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|---|---|---|---|---|
| cpg | 407.24 | J/mol×K | 734.40 | Joback Method |
| dvisc | 0.0010599 | Pa×s | 307.89 | Joback Method |
| dvisc | 0.0006390 | Pa×s | 344.78 | Joback Method |
| dvisc | 0.0004248 | Pa×s | 381.67 | Joback Method |
| dvisc | 0.0003035 | Pa×s | 418.56 | Joback Method |
| dvisc | 0.0002290 | Pa×s | 455.46 | Joback Method |
| dvisc | 0.0001802 | Pa×s | 492.35 | Joback Method |
| dvisc | 0.0001466 | Pa×s | 529.24 | Joback Method |

# Sources

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|---|---|
| **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=C3698235&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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