# 4-vinyl-3-methoxyphenol

**Inchi:** InChI=1S/C9H10O2/c1-3-7-4-5-8(10)6-9(7)11-2/h3-6,10H,1H2,2H3
**InchiKey:** UMDJLUGAMDTLDI-UHFFFAOYSA-N
**Formula:** C9H10O2
**SMILES:** C=Cc1ccc(O)cc1OC
**Mol. weight [g/mol]:** 150.17

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -44.10 | kJ/mol | Joback Method |
| hf | -188.13 | kJ/mol | Joback Method |
| hfus | 18.41 | kJ/mol | Joback Method |
| hvap | 53.32 | kJ/mol | Joback Method |
| log10ws | -1.96 | | Crippen Method |
| logp | 2.044 | | Crippen Method |
| mcvol | 121.350 | ml/mol | McGowan Method |
| pc | 3945.61 | kPa | Joback Method |
| rinpol | 1322.00 | | NIST Webbook |
| ripol | 2177.00 | | NIST Webbook |
| ripol | 2177.00 | | NIST Webbook |
| tb | 536.70 | K | Joback Method |
| tc | 762.38 | K | Joback Method |
| tf | 362.32 | K | Joback Method |
| vc | 0.397 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 271.06 | J/mol×K | 536.70 | Joback Method |
| cpg | 321.51 | J/mol×K | 724.77 | Joback Method |
| cpg | 312.69 | J/mol×K | 687.15 | Joback Method |
| cpg | 303.29 | J/mol×K | 649.54 | Joback Method |
| cpg | 293.26 | J/mol×K | 611.93 | Joback Method |
| cpg | 282.54 | J/mol×K | 574.31 | Joback Method |
| cpg | 329.83 | J/mol×K | 762.38 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0000529 | Pa×s | 536.70 | Joback Method |
| dvisc | 0.0000785 | Pa×s | 507.64 | Joback Method |
| dvisc | 0.0001224 | Pa×s | 478.57 | Joback Method |
| dvisc | 0.0002020 | Pa×s | 449.51 | Joback Method |
| dvisc | 0.0003573 | Pa×s | 420.45 | Joback Method |
| dvisc | 0.0006881 | Pa×s | 391.38 | Joback Method |
| dvisc | 0.0014717 | Pa×s | 362.32 | Joback Method |

# Sources

| | |
|---|---|
| **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 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R239180&Units=SI |

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

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