# p-Cresyl glycidyl ether

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|---|---|
| **Other names:** | 2,3-Epoxypropyl p-tolyl ether<br>Oxirane, [(4-methylphenoxy)methyl]-<br>Propane, 1,2-epoxy-3-(p-tolyloxy)-<br>p-Cresol glycidyl ether<br>1,2-Epoxy-3-(p-tolyloxy)propane<br>Glycidyl 4-methylphenyl ether<br>Glycidyl p-tolyl ether<br>2-[(4-Methylphenoxy)methyl]oxirane<br>((4-Methylphenoxy)methyl)oxirane<br>NSC 112255<br>p-Methylphenol glycidyl ether<br>[(p-tolyloxy)methyl]oxirane |
| **Inchi:** | InChI=1S/C10H12O2/c1-8-2-4-9(5-3-8)11-6-10-7-12-10/h2-5,10H,6-7H2,1H3 |
| **InchiKey:** | CUFXMPWHOWYNSO-UHFFFAOYSA-N |
| **Formula:** | C10H12O2 |
| **SMILES:** | Cc1ccc(OCC2CO2)cc1 |
| **Mol. weight [g/mol]:** | 164.20 |
| **CAS:** | 2186-24-5 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 5.73 | kJ/mol | Joback Method |
| hf | -216.09 | kJ/mol | Joback Method |
| hfus | 22.61 | kJ/mol | Joback Method |
| hvap | 47.62 | kJ/mol | Joback Method |
| log10ws | -2.00 | | Crippen Method |
| logp | 1.773 | | Crippen Method |
| mcvol | 128.880 | ml/mol | McGowan Method |
| pc | 3235.66 | kPa | Joback Method |
| tb | 515.97 | K | Joback Method |
| tc | 735.33 | K | Joback Method |
| tf | 308.14 | K | Joback Method |
| vc | 0.483 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 296.69 | J/mol×K | 515.97 | Joback Method |
| cpg | 361.91 | J/mol×K | 698.77 | Joback Method |
| cpg | 350.52 | J/mol×K | 662.21 | Joback Method |
| cpg | 338.35 | J/mol×K | 625.65 | Joback Method |
| cpg | 325.34 | J/mol×K | 589.09 | Joback Method |
| cpg | 311.47 | J/mol×K | 552.53 | Joback Method |
| cpg | 372.56 | J/mol×K | 735.33 | Joback Method |
| dvisc | 0.0004015 | Pa×s | 515.97 | Joback Method |
| dvisc | 0.0004659 | Pa×s | 481.33 | Joback Method |
| dvisc | 0.0005534 | Pa×s | 446.69 | Joback Method |
| dvisc | 0.0006764 | Pa×s | 412.06 | Joback Method |
| dvisc | 0.0008580 | Pa×s | 377.42 | Joback Method |
| dvisc | 0.0011418 | Pa×s | 342.78 | Joback Method |
| dvisc | 0.0016203 | Pa×s | 308.14 | Joback Method |

# Sources

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|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C2186245&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 |
| **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 |

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|---|---|
| **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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