# 1,4-Benzenediol, diacetate

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|---|---|
| **Other names:** | Hydroquinone diacetate |
| | p-Phenylene diacetate |
| | p-Diacetoxybenzene |
| | 1,4-Diacetoxybenzene |
| | 4-(Acetyloxy)phenyl acetate |
| **Inchi:** | InChI=1S/C10H10O4/c1-7(11)13-9-3-5-10(6-4-9)14-8(2)12/h3-6H,1-2H3 |
| **InchiKey:** | AKOGNYJNGMLDOA-UHFFFAOYSA-N |
| **Formula:** | C10H10O4 |
| **SMILES:** | CC(=O)Oc1ccc(OC(C)=O)cc1 |
| **Mol. weight [g/mol]:** | 194.18 |
| **CAS:** | 1205-91-0 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -331.74 | kJ/mol | Joback Method |
| hf | -514.27 | kJ/mol | Joback Method |
| hfus | 20.88 | kJ/mol | Joback Method |
| hvap | 59.10 | kJ/mol | Joback Method |
| log10ws | -2.10 | | Crippen Method |
| logp | 1.537 | | Crippen Method |
| mcvol | 142.880 | ml/mol | McGowan Method |
| pc | 3191.93 | kPa | Joback Method |
| rinpol | 1453.20 | | NIST Webbook |
| rinpol | 1453.20 | | NIST Webbook |
| tb | 612.44 | K | Joback Method |
| tc | 831.50 | K | Joback Method |
| tf | 385.72 | K | Joback Method |
| vc | 0.535 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 338.80 | J/mol×K | 612.44 | Joback Method |
| cpg | 391.31 | J/mol×K | 794.99 | Joback Method |

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|---|---|---|---|---|
| cpg | 382.23 | J/mol×K | 758.48 | Joback Method |
| cpg | 372.43 | J/mol×K | 721.97 | Joback Method |
| cpg | 361.93 | J/mol×K | 685.46 | Joback Method |
| cpg | 350.71 | J/mol×K | 648.95 | Joback Method |
| cpg | 399.66 | J/mol×K | 831.50 | Joback Method |
| dvisc | 0.0001824 | Pa×s | 612.44 | Joback Method |
| dvisc | 0.0002254 | Pa×s | 574.65 | Joback Method |
| dvisc | 0.0002869 | Pa×s | 536.87 | Joback Method |
| dvisc | 0.0003788 | Pa×s | 499.08 | Joback Method |
| dvisc | 0.0005235 | Pa×s | 461.29 | Joback Method |
| dvisc | 0.0007664 | Pa×s | 423.51 | Joback Method |
| dvisc | 0.0012091 | Pa×s | 385.72 | Joback Method |

# Sources

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|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C1205910&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

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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 |