# Phenol, 4-(2-propenyl)-, acetate

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|---|---|
| **Other names:** | 4-Allylphenyl acetate |
| | Chavicol, acetate |
| | 4-(2-Propenyl)phenyl acetate |
| **Inchi:** | InChI=1S/C11H12O2/c1-3-4-10-5-7-11(8-6-10)13-9(2)12/h3,5-8H,1,4H2,2H3 |
| **InchiKey:** | AXHHVVBUOKYKJO-UHFFFAOYSA-N |
| **Formula:** | C11H12O2 |
| **SMILES:** | C=CCc1ccc(OC(C)=O)cc1 |
| **Mol. weight [g/mol]:** | 176.21 |
| **CAS:** | 61499-22-7 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -1.56 | kJ/mol | Joback Method |
| hf | -164.68 | kJ/mol | Joback Method |
| hfus | 19.41 | kJ/mol | Joback Method |
| hvap | 51.50 | kJ/mol | Joback Method |
| log10ws | -2.86 | | Crippen Method |
| logp | 2.340 | | Crippen Method |
| mcvol | 145.230 | ml/mol | McGowan Method |
| pc | 2859.68 | kPa | Joback Method |
| rinpol | 1314.00 | | NIST Webbook |
| rinpol | 1315.00 | | NIST Webbook |
| rinpol | 1309.00 | | NIST Webbook |
| rinpol | 1350.60 | | NIST Webbook |
| rinpol | 1350.60 | | NIST Webbook |
| rinpol | 1309.00 | | NIST Webbook |
| rinpol | 1322.00 | | NIST Webbook |
| rinpol | 1322.00 | | NIST Webbook |
| ripol | 1949.00 | | NIST Webbook |
| tb | 555.71 | K | Joback Method |
| tc | 770.47 | K | Joback Method |
| tf | 323.07 | K | Joback Method |
| vc | 0.548 | m3/kmol | Joback Method |

# Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 326.57 | J/mol×K | 555.71 | Joback Method |
| cpg | 340.05 | J/mol×K | 591.50 | Joback Method |
| cpg | 352.75 | J/mol×K | 627.30 | Joback Method |
| cpg | 364.71 | J/mol×K | 663.09 | Joback Method |
| cpg | 375.94 | J/mol×K | 698.88 | Joback Method |
| cpg | 386.46 | J/mol×K | 734.67 | Joback Method |
| cpg | 396.28 | J/mol×K | 770.47 | Joback Method |
| dvisc | 0.0016626 | Pa×s | 323.07 | Joback Method |
| dvisc | 0.0009678 | Pa×s | 361.84 | Joback Method |
| dvisc | 0.0006256 | Pa×s | 400.62 | Joback Method |
| dvisc | 0.0004367 | Pa×s | 439.39 | Joback Method |
| dvisc | 0.0003232 | Pa×s | 478.16 | Joback Method |
| dvisc | 0.0002502 | Pa×s | 516.94 | Joback Method |
| dvisc | 0.0002008 | Pa×s | 555.71 | Joback Method |

# Sources

**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=C61499227&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

# 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 |