# 2-Acetamido-4-methylphenyl acetate

**Other names:** 2-N-Acetylamino-4-methylphenol acetate
**Inchi:** InChI=1S/C11H13NO3/c1-7-4-5-11(15-9(3)14)10(6-7)12-8(2)13/h4-6H,1-3H3,(H,12,13)
**InchiKey:** GPJFMEZBKSINFK-UHFFFAOYSA-N
**Formula:** C11H13NO3
**SMILES:** CC(=O)Nc1cc(C)ccc1OC(C)=O
**Mol. weight [g/mol]:** 207.23

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -138.56 | kJ/mol | Joback Method |
| hf | -360.69 | kJ/mol | Joback Method |
| hfus | 26.99 | kJ/mol | Joback Method |
| hvap | 66.02 | kJ/mol | Joback Method |
| log10ws | -2.46 | | Crippen Method |
| logp | 1.879 | | Crippen Method |
| mcvol | 161.080 | ml/mol | McGowan Method |
| pc | 2918.68 | kPa | Joback Method |
| rinpol | 1703.00 | | NIST Webbook |
| tb | 668.05 | K | Joback Method |
| tc | 885.88 | K | Joback Method |
| tf | 439.94 | K | Joback Method |
| vc | 0.609 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 410.21 | J/mol×K | 668.05 | Joback Method |
| cpg | 422.70 | J/mol×K | 704.36 | Joback Method |
| cpg | 434.40 | J/mol×K | 740.66 | Joback Method |
| cpg | 445.32 | J/mol×K | 776.97 | Joback Method |
| cpg | 455.45 | J/mol×K | 813.27 | Joback Method |
| cpg | 464.82 | J/mol×K | 849.58 | Joback Method |
| cpg | 473.43 | J/mol×K | 885.88 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=U373469&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 |
| **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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