

# 4-Ethylphenyl acetate

|                      |                                                                                |
|----------------------|--------------------------------------------------------------------------------|
| Other names:         | Phenol, 4-ethyl-, acetate<br>1-Acetoxy-4-ethylbenzene<br>p-ethylphenyl acetate |
| Inchi:               | InChI=1S/C10H12O2/c1-3-9-4-6-10(7-5-9)12-8(2)11/h4-7H,3H2,1-2H3                |
| InchiKey:            | ANMYMLIUCWWISO-UHFFFAOYSA-N                                                    |
| Formula:             | C10H12O2                                                                       |
| SMILES:              | CCc1ccc(OC(C)=O)cc1                                                            |
| Mol. weight [g/mol]: | 164.20                                                                         |
| CAS:                 | 3245-23-6                                                                      |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -97.82  | kJ/mol  | Joback Method  |
| hf            | -269.47 | kJ/mol  | Joback Method  |
| hfus          | 18.10   | kJ/mol  | Joback Method  |
| hvap          | 49.95   | kJ/mol  | Joback Method  |
| log10ws       | -2.59   |         | Crippen Method |
| logp          | 2.174   |         | Crippen Method |
| mcvol         | 135.440 | ml/mol  | McGowan Method |
| pc            | 3032.27 | kPa     | Joback Method  |
| ripol         | 1784.00 |         | NIST Webbook   |
| ripol         | 1784.00 |         | NIST Webbook   |
| tb            | 536.15  | K       | Joback Method  |
| tc            | 749.95  | K       | Joback Method  |
| tf            | 313.56  | K       | Joback Method  |
| vc            | 0.511   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 300.27 | J/mol×K | 536.15          | Joback Method |
| cpg           | 313.54 | J/mol×K | 571.78          | Joback Method |
| cpg           | 326.10 | J/mol×K | 607.42          | Joback Method |
| cpg           | 337.97 | J/mol×K | 643.05          | Joback Method |

|       |           |         |        |               |
|-------|-----------|---------|--------|---------------|
| cpg   | 349.15    | J/mol×K | 678.68 | Joback Method |
| cpg   | 359.66    | J/mol×K | 714.31 | Joback Method |
| cpg   | 369.52    | J/mol×K | 749.95 | Joback Method |
| dvisc | 0.0017515 | Pa×s    | 313.56 | Joback Method |
| dvisc | 0.0010200 | Pa×s    | 350.66 | Joback Method |
| dvisc | 0.0006587 | Pa×s    | 387.76 | Joback Method |
| dvisc | 0.0004592 | Pa×s    | 424.86 | Joback Method |
| dvisc | 0.0003392 | Pa×s    | 461.95 | Joback Method |
| dvisc | 0.0002621 | Pa×s    | 499.05 | Joback Method |
| dvisc | 0.0002099 | Pa×s    | 536.15 | Joback Method |

## Sources

|                        |                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>                                   |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                           |
| <b>Joback Method:</b>  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                       |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                       |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3245236&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3245236&amp;Units=SI</a> |

## Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>dvisc:</b>   | Dynamic viscosity                               |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>ripol:</b>   | Polar retention indices                         |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

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