

# Ethyl-«beta»-(4-hydroxy-3-methoxy-phenyl)-propionate

|                             |   |
|-----------------------------|---|
| <b>Other names:</b>         | Ethyl 3-(4-hydroxy-3-methoxyphenyl)propionate<br>Benzenepropanoic acid, 4-hydroxy-3-methoxy-, ethyl ester<br>«alpha», «beta»-Dihydroferulic acid, ethyl ester |
| <b>Inchi:</b>               | InChI=1S/C12H16O4/c1-3-16-12(14)7-5-9-4-6-10(13)11(8-9)15-2/h4,6,8,13H,3,5,7H2,1-2  |
| <b>InchiKey:</b>            | XFJQZDADXNOFTQ-UHFFFAOYSA-N   |
| <b>Formula:</b>             | C12H16O4  |
| <b>SMILES:</b>              | CCOC(=O)CCc1ccc(O)c(OC)c1   |
| <b>Mol. weight [g/mol]:</b> | 224.25  |
| <b>CAS:</b>                 | 61292-90-8  |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -340.60 | kJ/mol  | Joback Method  |
| hf            | -620.28 | kJ/mol  | Joback Method  |
| hfus          | 30.25   | kJ/mol  | Joback Method  |
| hvap          | 69.82   | kJ/mol  | Joback Method  |
| log10ws       | -2.06   |         | Crippen Method |
| logp          | 1.897   |         | Crippen Method |
| mcvol         | 175.360 | ml/mol  | McGowan Method |
| pc            | 2841.41 | kPa     | Joback Method  |
| tb            | 684.95  | K       | Joback Method  |
| tc            | 899.10  | K       | Joback Method  |
| tf            | 470.05  | K       | Joback Method  |
| vc            | 0.608   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 472.12 | J/molxK | 684.95          | Joback Method |
| cpg           | 485.23 | J/molxK | 720.64          | Joback Method |
| cpg           | 497.60 | J/molxK | 756.33          | Joback Method |
| cpg           | 509.26 | J/molxK | 792.03          | Joback Method |
| cpg           | 520.25 | J/molxK | 827.72          | Joback Method |
| cpg           | 530.63 | J/molxK | 863.41          | Joback Method |

|       |           |         |        |               |
|-------|-----------|---------|--------|---------------|
| cpg   | 540.42    | J/mol×K | 899.10 | Joback Method |
| dvisc | 0.0002706 | Paxs    | 470.05 | Joback Method |
| dvisc | 0.0001389 | Paxs    | 505.87 | Joback Method |
| dvisc | 0.0000779 | Paxs    | 541.68 | Joback Method |
| dvisc | 0.0000469 | Paxs    | 577.50 | Joback Method |
| dvisc | 0.0000300 | Paxs    | 613.32 | Joback Method |
| dvisc | 0.0000201 | Paxs    | 649.13 | Joback Method |
| dvisc | 0.0000141 | Paxs    | 684.95 | Joback Method |

## Sources

|                        |   |
|------------------------|---|
| <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=C61292908&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C61292908&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>   |

## 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>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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