

# Ethyl 2-ethoxypropanoate

Inchi:

InChI=1S/C7H14O3/c1-4-9-6(3)7(8)10-5-2/h6H,4-5H2,1-3H3

InchiKey:

UHKJHMOIRYZSTH-UHFFFAOYSA-N

Formula:

C7H14O3

SMILES:

CCOC(=O)C(C)OCC

Mol. weight [g/mol]:

146.18

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -333.30 | kJ/mol  | Joback Method  |
| hf            | -570.11 | kJ/mol  | Joback Method  |
| hfus          | 14.34   | kJ/mol  | Joback Method  |
| hvap          | 42.35   | kJ/mol  | Joback Method  |
| log10ws       | -0.81   |         | Crippen Method |
| logp          | 0.974   |         | Crippen Method |
| mcvol         | 122.800 | ml/mol  | McGowan Method |
| pc            | 2912.39 | kPa     | Joback Method  |
| rinpol        | 970.00  |         | NIST Webbook   |
| rinpol        | 991.00  |         | NIST Webbook   |
| rinpol        | 991.00  |         | NIST Webbook   |
| tb            | 457.83  | K       | Joback Method  |
| tc            | 637.68  | K       | Joback Method  |
| tf            | 248.04  | K       | Joback Method  |
| vc            | 0.464   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 261.88 | J/mol×K | 457.83          | Joback Method |
| cpg           | 314.74 | J/mol×K | 607.71          | Joback Method |
| cpg           | 304.87 | J/mol×K | 577.73          | Joback Method |
| cpg           | 294.65 | J/mol×K | 547.76          | Joback Method |
| cpg           | 284.07 | J/mol×K | 517.78          | Joback Method |
| cpg           | 273.14 | J/mol×K | 487.81          | Joback Method |
| cpg           | 324.24 | J/mol×K | 637.68          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0002170 | Pa×s | 457.83 | Joback Method |
| dvisc | 0.0002844 | Pa×s | 422.87 | Joback Method |
| dvisc | 0.0003913 | Pa×s | 387.90 | Joback Method |
| dvisc | 0.0005737 | Pa×s | 352.94 | Joback Method |
| dvisc | 0.0009148 | Pa×s | 317.97 | Joback Method |
| dvisc | 0.0016371 | Pa×s | 283.00 | Joback Method |
| dvisc | 0.0034521 | Pa×s | 248.04 | Joback Method |

## Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R576766&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R576766&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>                     |

## 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>rinpol:</b>  | Non-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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