

# ethyl hexanoate-d11

|                             |  |
|-----------------------------|--|
| <b>Inchi:</b>               | InChI=1S/C8H16O2/c1-3-5-6-7-8(9)10-4-2/h3-7H2,1-2H3/i1D3,3D2,5D2,6D2,7D2 |
| <b>InchiKey:</b>            | SHZIWNPUGLXDT-LELBNVJRSA-N   |
| <b>Formula:</b>             | C8H5D11O2  |
| <b>SMILES:</b>              | CCCCC(=O)OCC   |
| <b>Mol. weight [g/mol]:</b> | 155.28   |

## Physical Properties

| Property code | Value   | Unit                 | Source         |
|---------------|---------|----------------------|----------------|
| gf            | -217.44 | kJ/mol               | Joback Method  |
| hf            | -453.25 | kJ/mol               | Joback Method  |
| hfus          | 19.26   | kJ/mol               | Joback Method  |
| hvap          | 42.56   | kJ/mol               | Joback Method  |
| log10ws       | -2.03   |                      | Crippen Method |
| logp          | 2.130   |                      | Crippen Method |
| mvol          | 131.020 | ml/mol               | McGowan Method |
| pc            | 2657.03 | kPa                  | Joback Method  |
| ripol         | 1226.00 |                      | NIST Webbook   |
| ripol         | 1226.00 |                      | NIST Webbook   |
| tb            | 458.73  | K                    | Joback Method  |
| tc            | 633.80  | K                    | Joback Method  |
| tf            | 252.08  | K                    | Joback Method  |
| vc            | 0.507   | m <sup>3</sup> /kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 279.70    | J/molxK | 458.73          | Joback Method |
| cpg           | 291.94    | J/molxK | 487.91          | Joback Method |
| cpg           | 303.75    | J/molxK | 517.09          | Joback Method |
| cpg           | 315.14    | J/molxK | 546.26          | Joback Method |
| cpg           | 326.10    | J/molxK | 575.44          | Joback Method |
| cpg           | 336.64    | J/molxK | 604.62          | Joback Method |
| cpg           | 346.77    | J/molxK | 633.80          | Joback Method |
| dvisc         | 0.0032831 | Paxs    | 252.08          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0016585 | Paxs | 286.52 | Joback Method |
| dvisc | 0.0009701 | Paxs | 320.96 | Joback Method |
| dvisc | 0.0006296 | Paxs | 355.40 | Joback Method |
| dvisc | 0.0004410 | Paxs | 389.85 | Joback Method |
| dvisc | 0.0003273 | Paxs | 424.29 | Joback Method |
| dvisc | 0.0002540 | Paxs | 458.73 | Joback Method |

## Sources

|                        |   |
|------------------------|---|
| <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>                                     |
| <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=R328993&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R328993&amp;Units=SI</a> |

## Legend

|                            |   |
|----------------------------|---|
| <b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b> | Log <sub>10</sub> of Water solubility in mol/l  |
| <b>log<sub>p</sub>:</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                                 |

Latest version available from:

<https://www.chemeo.com/cid/71-241-5/ethyl-hexanoate-d11.pdf>

Generated by Cheméo on 2024-04-28 14:12:59.36795857 +0000 UTC m=+16602828.288535881.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.