

# cis-3-hexenyl levulinate

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| Other names:         | (Z)-hex-3-enyl 4-oxovalerate                                                  |
| Inchi:               | InChI=1S/C11H18O3/c1-3-4-5-6-9-14-11(13)8-7-10(2)12/h4-5H,3,6-9H2,1-2H3/b5-4- |
| InchiKey:            | WVABNTSULPSDJL-PLNGDYQASA-N                                                   |
| Formula:             | C11H18O3                                                                      |
| SMILES:              | CCC=CCCOC(=O)CCC(C)=O                                                         |
| Mol. weight [g/mol]: | 198.26                                                                        |
| CAS:                 | 85554-70-7                                                                    |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -240.88 | kJ/mol  | Joback Method  |
| hf            | -510.53 | kJ/mol  | Joback Method  |
| hfus          | 28.83   | kJ/mol  | Joback Method  |
| hvap          | 55.94   | kJ/mol  | Joback Method  |
| log10ws       | -2.42   |         | Crippen Method |
| logp          | 2.255   |         | Crippen Method |
| mcvol         | 170.560 | ml/mol  | McGowan Method |
| pc            | 2239.76 | kPa     | Joback Method  |
| ripol         | 2064.00 |         | NIST Webbook   |
| tb            | 585.40  | K       | Joback Method  |
| tc            | 771.66  | K       | Joback Method  |
| tf            | 330.74  | K       | Joback Method  |
| vc            | 0.661   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 418.97 | J/mol×K | 585.40          | Joback Method |
| cpg           | 432.59 | J/mol×K | 616.44          | Joback Method |
| cpg           | 445.57 | J/mol×K | 647.49          | Joback Method |
| cpg           | 457.91 | J/mol×K | 678.53          | Joback Method |
| cpg           | 469.64 | J/mol×K | 709.57          | Joback Method |
| cpg           | 480.78 | J/mol×K | 740.61          | Joback Method |
| cpg           | 491.33 | J/mol×K | 771.66          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0023365 | Pa×s | 330.74 | Joback Method |
| dvisc | 0.0012003 | Pa×s | 373.18 | Joback Method |
| dvisc | 0.0007065 | Pa×s | 415.63 | Joback Method |
| dvisc | 0.0004588 | Pa×s | 458.07 | Joback Method |
| dvisc | 0.0003205 | Pa×s | 500.51 | Joback Method |
| dvisc | 0.0002369 | Pa×s | 542.96 | Joback Method |
| dvisc | 0.0001829 | Pa×s | 585.40 | 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=C85554707&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C85554707&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>                                         |

## 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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