

# Succinic acid, cyclohexylmethyl dec-9-en-1-yl ester

|                      |                                                                                   |
|----------------------|-----------------------------------------------------------------------------------|
| Inchi:               | InChI=1S/C21H36O4/c1-2-3-4-5-6-7-8-12-17-24-20(22)15-16-21(23)25-18-19-13-10-9-11 |
| InchiKey:            | SAXISOJTVYWCGG-UHFFFAOYSA-N                                                       |
| Formula:             | C21H36O4                                                                          |
| SMILES:              | C=CCCCCCCCCOC(=O)CCC(=O)OCC1CCCCC1                                                |
| Mol. weight [g/mol]: | 352.51                                                                            |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -229.61 | kJ/mol  | Joback Method  |
| hf            | -786.62 | kJ/mol  | Joback Method  |
| hfus          | 46.27   | kJ/mol  | Joback Method  |
| hvap          | 80.41   | kJ/mol  | Joback Method  |
| log10ws       | -5.84   |         | Crippen Method |
| logp          | 5.350   |         | Crippen Method |
| mcvol         | 306.470 | ml/mol  | McGowan Method |
| pc            | 1193.17 | kPa     | Joback Method  |
| rinpol        | 2593.00 |         | NIST Webbook   |
| rinpol        | 2593.00 |         | NIST Webbook   |
| tb            | 848.69  | K       | Joback Method  |
| tc            | 1046.95 | K       | Joback Method  |
| tf            | 476.37  | K       | Joback Method  |
| vc            | 1.173   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 999.81    | J/mol×K | 848.69          | Joback Method |
| cpg           | 1079.89   | J/mol×K | 1013.91         | Joback Method |
| cpg           | 1066.36   | J/mol×K | 980.87          | Joback Method |
| cpg           | 1051.62   | J/mol×K | 947.82          | Joback Method |
| cpg           | 1035.64   | J/mol×K | 914.78          | Joback Method |
| cpg           | 1018.37   | J/mol×K | 881.73          | Joback Method |
| cpg           | 1092.22   | J/mol×K | 1046.95         | Joback Method |
| dvisc         | 0.0000509 | Pa×s    | 848.69          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000679 | Pa×s | 786.64 | Joback Method |
| dvisc | 0.0000949 | Pa×s | 724.58 | Joback Method |
| dvisc | 0.0001414 | Pa×s | 662.53 | Joback Method |
| dvisc | 0.0002288 | Pa×s | 600.48 | Joback Method |
| dvisc | 0.0004134 | Pa×s | 538.42 | Joback Method |
| dvisc | 0.0008717 | Pa×s | 476.37 | Joback Method |

## Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <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=U391251&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U391251&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>                                 |

## 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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