

# Succinic acid, tridec-2-yn-1-yl 2-heptyl ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C24H42O4/c1-4-6-8-9-10-11-12-13-14-15-17-21-27-23(25)19-20-24(26)28-22(

PATIDHKDRBEMCI-UHFFFAOYSA-N

C24H42O4

CCCCCCCCCCC#CCOC(=O)CCC(=O)OC(C)CCCCC

394.59

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -116.28 | kJ/mol  | Joback Method  |
| hf            | -761.27 | kJ/mol  | Joback Method  |
| hfus          | 63.09   | kJ/mol  | Joback Method  |
| hvap          | 89.09   | kJ/mol  | Joback Method  |
| log10ws       | -7.50   |         | Crippen Method |
| logp          | 6.356   |         | Crippen Method |
| mcvol         | 355.300 | ml/mol  | McGowan Method |
| pc            | 939.79  | kPa     | Joback Method  |
| rinpol        | 2718.00 |         | NIST Webbook   |
| rinpol        | 2718.00 |         | NIST Webbook   |
| tb            | 909.66  | K       | Joback Method  |
| tc            | 1113.76 | K       | Joback Method  |
| tf            | 595.66  | K       | Joback Method  |
| vc            | 1.383   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value   | Unit    | Temperature [K] | Source        |
|---------------|---------|---------|-----------------|---------------|
| cpg           | 1165.20 | J/mol×K | 909.66          | Joback Method |
| cpg           | 1183.91 | J/mol×K | 943.68          | Joback Method |
| cpg           | 1201.29 | J/mol×K | 977.69          | Joback Method |
| cpg           | 1217.35 | J/mol×K | 1011.71         | Joback Method |
| cpg           | 1232.13 | J/mol×K | 1045.73         | Joback Method |
| cpg           | 1245.66 | J/mol×K | 1079.74         | Joback Method |
| cpg           | 1257.97 | J/mol×K | 1113.76         | Joback Method |

# Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <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>                     |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U390576&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U390576&amp;Units=SI</a> |

# Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <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>rlnpol:</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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