

# Succinic acid, 4-fluorophenethyl heptadecyl ester

|                      |  |
|----------------------|--|
| Inchi:               | InChI=1S/C29H47FO4/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-24-33-28(31)21-22-29( |
| InchiKey:            | JTRWRYSACRLLOE-UHFFFAOYSA-N  |
| Formula:             | C29H47FO4  |
| SMILES:              | CCCCCCCCCCCCCCCCOC(=O)CCC(=O)OCCc1ccc(F)cc1                                      |
| Mol. weight [g/mol]: | 478.68   |

## Physical Properties

| Property code | Value    | Unit                 | Source         |
|---------------|----------|----------------------|----------------|
| gf            | -366.57  | kJ/mol               | Joback Method  |
| hf            | -1102.54 | kJ/mol               | Joback Method  |
| hfus          | 73.17    | kJ/mol               | Joback Method  |
| hvap          | 100.58   | kJ/mol               | Joback Method  |
| log10ws       | -9.12    |                      | Crippen Method |
| logp          | 8.106    |                      | Crippen Method |
| mvol          | 412.360  | ml/mol               | McGowan Method |
| pc            | 755.15   | kPa                  | Joback Method  |
| rinpol        | 3223.00  |                      | NIST Webbook   |
| rinpol        | 3223.00  |                      | NIST Webbook   |
| tb            | 1046.43  | K                    | Joback Method  |
| tc            | 1294.45  | K                    | Joback Method  |
| tf            | 600.44   | K                    | Joback Method  |
| vc            | 1.617    | m <sup>3</sup> /kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value   | Unit    | Temperature [K] | Source        |
|---------------|---------|---------|-----------------|---------------|
| cpg           | 1439.60 | J/molxK | 1046.43         | Joback Method |
| cpg           | 1458.39 | J/molxK | 1087.77         | Joback Method |
| cpg           | 1475.19 | J/molxK | 1129.10         | Joback Method |
| cpg           | 1490.09 | J/molxK | 1170.44         | Joback Method |
| cpg           | 1503.19 | J/molxK | 1211.78         | Joback Method |
| cpg           | 1514.56 | J/molxK | 1253.11         | Joback Method |
| cpg           | 1524.31 | J/molxK | 1294.45         | 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=U381309&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381309&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>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>hvp:</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>rinp:</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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