

Succinic acid, di(2,3,4,5-tetrafluorobenzyl) ester

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| Inchi: | InChI=1S/C18H10F8O4/c19-9-3-7(13(21)17(25)15(9)23)5-29-11(27)1-2-12(28)30-6-8-4- |
| InchiKey: | HACVIYPOQDTULW-UHFFFAOYSA-N |
| Formula: | C18H10F8O4 |
| SMILES: | O=C(CCC(=O)OCc1cc(F)c(F)c(F)c1F)OCc1cc(F)c(F)c(F)c1F |
| Mol. weight [g/mol]: | 442.26 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1777.86 | kJ/mol | Joback Method |
| hf | -2092.03 | kJ/mol | Joback Method |
| hfus | 57.56 | kJ/mol | Joback Method |
| hvap | 77.29 | kJ/mol | Joback Method |
| log10ws | -6.93 | | Crippen Method |
| logp | 4.366 | | Crippen Method |
| mcvol | 246.000 | ml/mol | McGowan Method |
| pc | 1400.64 | kPa | Joback Method |
| rinpola | 2181.00 | | NIST Webbook |
| rinpola | 2181.00 | | NIST Webbook |
| tb | 851.18 | K | Joback Method |
| tc | 1045.17 | K | Joback Method |
| tf | 594.66 | K | Joback Method |
| vc | 1.020 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 718.65 | J/molxK | 851.18 | Joback Method |
| cpg | 728.86 | J/molxK | 883.51 | Joback Method |
| cpg | 738.18 | J/molxK | 915.84 | Joback Method |
| cpg | 746.60 | J/molxK | 948.17 | Joback Method |
| cpg | 754.11 | J/molxK | 980.51 | Joback Method |
| cpg | 760.70 | J/molxK | 1012.84 | Joback Method |
| cpg | 766.39 | J/molxK | 1045.17 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U381627&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

Legend

| | |
|-----------------|---|
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvp: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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