

Glutaric acid, di(2-(4-fluorophenyl)ethyl) ester

| | |
|-----------------------------|--|
| Inchi: | InChI=1S/C21H22F2O4/c22-18-8-4-16(5-9-18)12-14-26-20(24)2-1-3-21(25)27-15-13-17- |
| InchiKey: | UPWSVNZEYBERG-UHFFFAOYSA-N |
| Formula: | C21H22F2O4 |
| SMILES: | O=C(CCCC(=O)OCCc1ccc(F)cc1)OCCc1ccc(F)cc1 |
| Mol. weight [g/mol]: | 376.39 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -525.96 | kJ/mol | Joback Method |
| hf | -908.47 | kJ/mol | Joback Method |
| hfus | 49.18 | kJ/mol | Joback Method |
| hvap | 84.89 | kJ/mol | Joback Method |
| log10ws | -5.21 | | Crippen Method |
| logp | 4.007 | | Crippen Method |
| mvol | 277.650 | ml/mol | McGowan Method |
| pc | 1479.29 | kPa | Joback Method |
| rinpol | 2718.00 | | NIST Webbook |
| rinpol | 2718.00 | | NIST Webbook |
| tb | 894.32 | K | Joback Method |
| tc | 1107.29 | K | Joback Method |
| tf | 549.81 | K | Joback Method |
| vc | 1.079 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 852.67 | J/mol×K | 894.32 | Joback Method |
| cpg | 865.98 | J/mol×K | 929.81 | Joback Method |
| cpg | 878.08 | J/mol×K | 965.31 | Joback Method |
| cpg | 889.02 | J/mol×K | 1000.80 | Joback Method |
| cpg | 898.83 | J/mol×K | 1036.30 | Joback Method |
| cpg | 907.54 | J/mol×K | 1071.79 | Joback Method |
| cpg | 915.18 | J/mol×K | 1107.29 | 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=U377129&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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 |
| hvap: | 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 |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/117-214-4/Glutaric-acid-di-2-4-fluorophenyl-ethyl-ester.pdf>

Generated by Cheméo on 2024-04-28 21:47:35.042895983 +0000 UTC m=+16630103.963473299.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.