

Glutaric acid, di(2-fluoroethyl) ester

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| Inchi: | InChI=1S/C9H14F2O4/c10-4-6-14-8(12)2-1-3-9(13)15-7-5-11/h1-7H2 |
| InchiKey: | VQBACQRZUFWLSX-UHFFFAOYSA-N |
| Formula: | C9H14F2O4 |
| SMILES: | O=C(CCCC(=O)OCCF)OCCF |
| Mol. weight [g/mol]: | 224.20 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -832.56 | kJ/mol | Joback Method |
| hf | -1110.91 | kJ/mol | Joback Method |
| hfus | 30.80 | kJ/mol | Joback Method |
| hvap | 52.31 | kJ/mol | Joback Method |
| log10ws | -1.02 | | Crippen Method |
| logp | 1.182 | | Crippen Method |
| mcvol | 156.090 | ml/mol | McGowan Method |
| pc | 2311.39 | kPa | Joback Method |
| rinpol | 1409.00 | | NIST Webbook |
| rinpol | 1409.00 | | NIST Webbook |
| tb | 556.44 | K | Joback Method |
| tc | 723.49 | K | Joback Method |
| tf | 336.69 | K | Joback Method |
| vc | 0.624 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 384.51 | J/mol×K | 556.44 | Joback Method |
| cpg | 395.84 | J/mol×K | 584.28 | Joback Method |
| cpg | 406.75 | J/mol×K | 612.12 | Joback Method |
| cpg | 417.22 | J/mol×K | 639.96 | Joback Method |
| cpg | 427.27 | J/mol×K | 667.81 | Joback Method |
| cpg | 436.88 | J/mol×K | 695.65 | Joback Method |
| cpg | 446.05 | J/mol×K | 723.49 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.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=U393723&Units=SI |

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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