

Glutaric acid, tridec-2-yn-1-yl 2-fluoro-3-trifluoromethylphenyl ester

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| Inchi: | InChI=1S/C25H32F4O4/c1-2-3-4-5-6-7-8-9-10-11-12-19-32-22(30)17-14-18-23(31)33-21 |
| InchiKey: | MXQVHQHGTHJDIZ-UHFFFAOYSA-N |
| Formula: | C25H32F4O4 |
| SMILES: | CCCCCCCCC#CCOC(=O)CCCC(=O)Oc1cccc(C(F)(F)F)c1F |
| Mol. weight [g/mol]: | 472.51 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -788.67 | kJ/mol | Joback Method |
| hf | -1356.23 | kJ/mol | Joback Method |
| hfus | 67.37 | kJ/mol | Joback Method |
| hvap | 90.74 | kJ/mol | Joback Method |
| log10ws | -8.58 | | Crippen Method |
| logp | 6.998 | | Crippen Method |
| mvol | 352.710 | ml/mol | McGowan Method |
| pc | 960.88 | kPa | Joback Method |
| rinpol | 2817.00 | | NIST Webbook |
| rinpol | 2817.00 | | NIST Webbook |
| tb | 963.47 | K | Joback Method |
| tc | 1179.69 | K | Joback Method |
| tf | 678.17 | K | Joback Method |
| vc | 1.399 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1152.65 | J/mol×K | 963.47 | Joback Method |
| cpg | 1167.96 | J/mol×K | 999.51 | Joback Method |
| cpg | 1181.98 | J/mol×K | 1035.54 | Joback Method |
| cpg | 1194.77 | J/mol×K | 1071.58 | Joback Method |
| cpg | 1206.38 | J/mol×K | 1107.62 | Joback Method |
| cpg | 1216.88 | J/mol×K | 1143.65 | Joback Method |
| cpg | 1226.32 | J/mol×K | 1179.69 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U393628&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |

Legend

| | |
|----------------------------|---|
| cp_g: | Ideal gas heat capacity |
| g_f: | Standard Gibbs free energy of formation |
| h_f: | Enthalpy of formation at standard conditions |
| h_{fus}: | Enthalpy of fusion at standard conditions |
| h_{vap}: | Enthalpy of vaporization at standard conditions |
| log₁₀ws: | Log ₁₀ of Water solubility in mol/l |
| log_p: | Octanol/Water partition coefficient |
| mc_{vol}: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rin_{pol}: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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