

6-Fluoro-3-trifluoromethylbenzoic acid, 2,3-dichlorophenyl ester

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| Other names: | 6-Fluoro-3-trifluorobenzoic acid, 2,3-dichlorophenyl ester |
| Inchi: | InChI=1S/C14H6Cl2F4O2/c15-9-2-1-3-11(12(9)16)22-13(21)8-6-7(14(18,19)20)4-5-10(8) |
| InchiKey: | WPODOPQVUWUHAY-UHFFFAOYSA-N |
| Formula: | C14H6Cl2F4O2 |
| SMILES: | O=C(Oc1cccc(Cl)c1Cl)c1cc(C(F)(F)F)ccc1F |
| Mol. weight [g/mol]: | 353.10 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -780.88 | kJ/mol | Joback Method |
| hf | -974.58 | kJ/mol | Joback Method |
| hfus | 34.63 | kJ/mol | Joback Method |
| hvap | 67.32 | kJ/mol | Joback Method |
| log10ws | -6.36 | | Crippen Method |
| logp | 5.370 | | Crippen Method |
| mcvol | 199.600 | ml/mol | McGowan Method |
| pc | 2165.35 | kPa | Joback Method |
| rinpol | 1902.00 | | NIST Webbook |
| rinpol | 1902.00 | | NIST Webbook |
| tb | 738.00 | K | Joback Method |
| tc | 960.76 | K | Joback Method |
| tf | 487.24 | K | Joback Method |
| vc | 0.786 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 492.48 | J/molxK | 738.00 | Joback Method |
| cpg | 502.52 | J/molxK | 775.13 | Joback Method |
| cpg | 511.67 | J/molxK | 812.25 | Joback Method |
| cpg | 520.00 | J/molxK | 849.38 | Joback Method |
| cpg | 527.53 | J/molxK | 886.51 | Joback Method |
| cpg | 534.33 | J/molxK | 923.63 | Joback Method |
| cpg | 540.44 | J/molxK | 960.76 | 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=U343789&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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