

4-Fluoro-2-trifluoromethylbenzoic acid, 2-(1-phenyleth-1-yl)-4-methoxyphenyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C23H18F4O3/c1-14(15-6-4-3-5-7-15)19-13-17(29-2)9-11-21(19)30-22(28)18-1 |
| InchiKey: | ZEMNAWICZCCZND-UHFFFAOYSA-N |
| Formula: | C23H18F4O3 |
| SMILES: | COc1ccc(OC(=O)c2ccc(F)cc2C(F)(F)F)c(C(C)c2ccccc2)c1 |
| Mol. weight [g/mol]: | 418.38 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|---------|----------------|
| gf | -676.27 | kJ/mol | Joback Method |
| hf | -1029.83 | kJ/mol | Joback Method |
| hfus | 41.25 | kJ/mol | Joback Method |
| hvap | 82.88 | kJ/mol | Joback Method |
| log10ws | -7.60 | | Crippen Method |
| logp | 6.224 | | Crippen Method |
| mcvol | 284.040 | ml/mol | McGowan Method |
| pc | 1460.13 | kPa | Joback Method |
| rinpol | 2515.00 | | NIST Webbook |
| rinpol | 2515.00 | | NIST Webbook |
| tb | 917.72 | K | Joback Method |
| tc | 1145.42 | K | Joback Method |
| tf | 562.48 | K | Joback Method |
| vc | 1.097 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 868.82 | J/molxK | 917.72 | Joback Method |
| cpg | 881.40 | J/molxK | 955.67 | Joback Method |
| cpg | 892.71 | J/molxK | 993.62 | Joback Method |
| cpg | 902.83 | J/molxK | 1031.57 | Joback Method |
| cpg | 911.83 | J/molxK | 1069.52 | Joback Method |
| cpg | 919.78 | J/molxK | 1107.47 | Joback Method |
| cpg | 926.76 | J/molxK | 1145.42 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U358098&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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 |

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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