

3-Methoxy-2,4,5-trifluorobenzoic acid, eicosyl ester

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| Inchi: | InChI=1S/C28H45F3O3/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-34-28(3 |
| InchiKey: | NQUBKJPFVOGFSM-UHFFFAOYSA-N |
| Formula: | C28H45F3O3 |
| SMILES: | CCCCCCCCCCCCCCCCCCCCOC(=O)c1cc(F)c(F)c(OC)c1F |
| Mol. weight [g/mol]: | 486.65 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|---------|----------------|
| gf | -664.58 | kJ/mol | Joback Method |
| hf | -1395.95 | kJ/mol | Joback Method |
| hfus | 73.98 | kJ/mol | Joback Method |
| hvap | 91.96 | kJ/mol | Joback Method |
| log10ws | -10.78 | | Crippen Method |
| logp | 9.311 | | Crippen Method |
| mcvol | 400.240 | ml/mol | McGowan Method |
| pc | 714.54 | kPa | Joback Method |
| rinpol | 3241.00 | | NIST Webbook |
| tb | 983.16 | K | Joback Method |
| tc | 1215.56 | K | Joback Method |
| tf | 577.98 | K | Joback Method |
| vc | 1.591 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1371.41 | J/molxK | 983.16 | Joback Method |
| cpg | 1391.59 | J/molxK | 1021.89 | Joback Method |
| cpg | 1409.91 | J/molxK | 1060.63 | Joback Method |
| cpg | 1426.40 | J/molxK | 1099.36 | Joback Method |
| cpg | 1441.13 | J/molxK | 1138.09 | Joback Method |
| cpg | 1454.14 | J/molxK | 1176.82 | Joback Method |
| cpg | 1465.48 | J/molxK | 1215.56 | 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=U338777&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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 |
| hvac: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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