

3,4-Difluorobenzoic acid, 2-ethylhexyl ester

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| Inchi: | InChI=1S/C15H20F2O2/c1-3-5-6-11(4-2)10-19-15(18)12-7-8-13(16)14(17)9-12/h7-9,11H |
| InchiKey: | JWASMULRJNZYNO-UHFFFAOYSA-N |
| Formula: | C15H20F2O2 |
| SMILES: | CCCCC(CC)COC(=O)c1ccc(F)c(F)c1 |
| Mol. weight [g/mol]: | 270.31 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -457.41 | kJ/mol | Joback Method |
| hf | -781.64 | kJ/mol | Joback Method |
| hfus | 33.29 | kJ/mol | Joback Method |
| hvap | 59.72 | kJ/mol | Joback Method |
| log10ws | -5.07 | | Crippen Method |
| logp | 4.338 | | Crippen Method |
| mcvol | 209.430 | ml/mol | McGowan Method |
| pc | 1746.28 | kPa | Joback Method |
| rinpola | 1676.00 | | NIST Webbook |
| rinpola | 1676.00 | | NIST Webbook |
| tb | 653.63 | K | Joback Method |
| tc | 840.96 | K | Joback Method |
| tf | 368.61 | K | Joback Method |
| vc | 0.822 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 562.18 | J/molxK | 653.63 | Joback Method |
| cpg | 577.57 | J/molxK | 684.85 | Joback Method |
| cpg | 592.15 | J/molxK | 716.07 | Joback Method |
| cpg | 605.95 | J/molxK | 747.29 | Joback Method |
| cpg | 618.98 | J/molxK | 778.51 | Joback Method |
| cpg | 631.26 | J/molxK | 809.74 | Joback Method |
| cpg | 642.80 | J/molxK | 840.96 | 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=U357709&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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