

2,3-Difluorophenylacetic acid

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|-----------------------------|---|
| Inchi: | InChI=1S/C8H6F2O2/c9-6-3-1-2-5(8(6)10)4-7(11)12/h1-3H,4H2,(H,11,12) |
| InchiKey: | UXSQXUSJGPVOKT-UHFFFAOYSA-N |
| Formula: | C8H6F2O2 |
| SMILES: | O=C(O)Cc1cccc(F)c1F |
| Mol. weight [g/mol]: | 172.13 |
| CAS: | 360-03-2 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -545.73 | kJ/mol | Joback Method |
| hf | -651.89 | kJ/mol | Joback Method |
| hfus | 21.59 | kJ/mol | Joback Method |
| hvap | 58.79 | kJ/mol | Joback Method |
| log10ws | -2.04 | | Crippen Method |
| logp | 1.592 | | Crippen Method |
| mcvol | 110.800 | ml/mol | McGowan Method |
| pc | 3810.39 | kPa | Joback Method |
| tb | 563.67 | K | Joback Method |
| tc | 753.30 | K | Joback Method |
| tf | 343.31 | K | Joback Method |
| vc | 0.436 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 251.48 | J/molxK | 563.67 | Joback Method |
| cpg | 259.65 | J/molxK | 595.28 | Joback Method |
| cpg | 267.37 | J/molxK | 626.88 | Joback Method |
| cpg | 274.66 | J/molxK | 658.49 | Joback Method |
| cpg | 281.52 | J/molxK | 690.09 | Joback Method |
| cpg | 287.98 | J/molxK | 721.70 | Joback Method |
| cpg | 294.04 | J/molxK | 753.30 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| 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=C360032&Units=SI |

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 |
| hvap: | 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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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