

3,5-Difluorobenzoyl chloride

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|-----------------------------|---|
| Inchi: | InChI=1S/C7H3ClF2O/c8-7(11)4-1-5(9)3-6(10)2-4/h1-3H |
| InchiKey: | OYZWEOORLJBPMA-UHFFFAOYSA-N |
| Formula: | C7H3ClF2O |
| SMILES: | O=C(Cl)c1cc(F)cc(F)c1 |
| Mol. weight [g/mol]: | 176.55 |
| CAS: | 129714-97-2 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -429.26 | kJ/mol | Joback Method |
| hf | -494.76 | kJ/mol | Joback Method |
| hfus | 19.11 | kJ/mol | Joback Method |
| hvap | 44.27 | kJ/mol | Joback Method |
| log10ws | -3.02 | | Crippen Method |
| logp | 2.344 | | Crippen Method |
| mcvol | 103.080 | ml/mol | McGowan Method |
| pc | 3659.77 | kPa | Joback Method |
| tb | 486.04 | K | Joback Method |
| tc | 696.07 | K | Joback Method |
| tf | 301.14 | K | Joback Method |
| vc | 0.410 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 192.28 | J/mol×K | 486.04 | Joback Method |
| cpg | 200.24 | J/mol×K | 521.04 | Joback Method |
| cpg | 207.73 | J/mol×K | 556.05 | Joback Method |
| cpg | 214.74 | J/mol×K | 591.05 | Joback Method |
| cpg | 221.31 | J/mol×K | 626.06 | Joback Method |
| cpg | 227.44 | J/mol×K | 661.06 | Joback Method |
| cpg | 233.14 | J/mol×K | 696.07 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C129714972&Units=SI |
| 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 |

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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