

3-Fluorovaline

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C5H10FNO2/c1-5(2,6)3(7)4(8)9/h3H,7H2,1-2H3,(H,8,9) |
| InchiKey: | ZFUKCHCGMBNYHH-UHFFFAOYSA-N |
| Formula: | C5H10FNO2 |
| SMILES: | CC(C)(F)C(N)C(=O)O |
| Mol. weight [g/mol]: | 135.14 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -402.48 | kJ/mol | Joback Method |
| hf | -587.69 | kJ/mol | Joback Method |
| hfus | 11.73 | kJ/mol | Joback Method |
| hvap | 58.29 | kJ/mol | Joback Method |
| log10ws | -0.53 | | Crippen Method |
| logp | 0.146 | | Crippen Method |
| mcvol | 100.500 | ml/mol | McGowan Method |
| pc | 4420.84 | kPa | Joback Method |
| rinpol | 1021.00 | | NIST Webbook |
| rinpol | 1021.00 | | NIST Webbook |
| tb | 527.98 | K | Joback Method |
| tc | 717.05 | K | Joback Method |
| tf | 328.13 | K | Joback Method |
| vc | 0.370 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 244.12 | J/molxK | 527.98 | Joback Method |
| cpg | 252.75 | J/molxK | 559.49 | Joback Method |
| cpg | 260.86 | J/molxK | 591.00 | Joback Method |
| cpg | 268.46 | J/molxK | 622.52 | Joback Method |
| cpg | 275.59 | J/molxK | 654.03 | Joback Method |
| cpg | 282.27 | J/molxK | 685.54 | Joback Method |
| cpg | 288.53 | J/molxK | 717.05 | 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=R221897&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 |
| hvap: | 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 |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/120-688-5/3-Fluorovaline.pdf>

Generated by Cheméo on 2024-05-03 02:41:22.084186924 +0000 UTC m=+16993331.004764245.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.