

Butanamide, N-(2,5-dimethoxyphenyl)-2,2,3,3,4,4,4-heptafluoro

Inchi: InChI=1S/C12H10F7NO3/c1-22-6-3-4-8(23-2)7(5-6)20-9(21)10(13,14)11(15,16)12(17,18

InchiKey: QKDMKFZROUUMBQ-UHFFFAOYSA-N

Formula: C12H10F7NO3

SMILES: COc1ccc(OC)c(NC(=O)C(F)(F)C(F)(F)C(F)(F)F)c1

Mol. weight [g/mol]: 349.20

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1461.37 | kJ/mol | Joback Method |
| hf | -1799.99 | kJ/mol | Joback Method |
| hfus | 28.49 | kJ/mol | Joback Method |
| hvap | 54.30 | kJ/mol | Joback Method |
| log10ws | -4.04 | | Crippen Method |
| logp | 3.475 | | Crippen Method |
| mcvol | 191.860 | ml/mol | McGowan Method |
| pc | 1915.26 | kPa | Joback Method |
| rinsol | 1476.00 | | NIST Webbook |
| tb | 644.68 | K | Joback Method |
| tc | 824.93 | K | Joback Method |
| tf | 434.90 | K | Joback Method |
| vc | 0.769 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 536.34 | J/mol×K | 644.68 | Joback Method |
| cpg | 547.97 | J/mol×K | 674.72 | Joback Method |
| cpg | 558.80 | J/mol×K | 704.76 | Joback Method |
| cpg | 568.85 | J/mol×K | 734.80 | Joback Method |
| cpg | 578.17 | J/mol×K | 764.84 | Joback Method |
| cpg | 586.81 | J/mol×K | 794.89 | Joback Method |
| cpg | 594.79 | J/mol×K | 824.93 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U307280&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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 |

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 |

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