

Isopropyl (4-chlorophenyl)sulfonylcarbamate

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| Inchi: | InChI=1S/C10H12ClNO4S/c1-7(2)16-10(13)12-17(14,15)9-5-3-8(11)4-6-9/h3-7H,1-2H3,(|
| InchiKey: | VJAFDXPHYHGHLX-UHFFFAOYSA-N |
| Formula: | C10H12ClNO4S |
| SMILES: | CC(C)OC(=O)NS(=O)(=O)c1ccc(Cl)cc1 |
| Mol. weight [g/mol]: | 277.73 |
| CAS: | 51920-60-6 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -491.34 | kJ/mol | Joback Method |
| hf | -690.37 | kJ/mol | Joback Method |
| hfus | 35.25 | kJ/mol | Joback Method |
| hvap | 79.02 | kJ/mol | Joback Method |
| log10ws | -3.24 | | Crippen Method |
| logp | 2.163 | | Crippen Method |
| mcvol | 185.750 | ml/mol | McGowan Method |
| pc | 3555.77 | kPa | Joback Method |
| tb | 671.09 | K | Joback Method |
| tc | 884.61 | K | Joback Method |
| tf | 419.70 | K | Joback Method |
| vc | 0.716 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 455.93 | J/molxK | 671.09 | Joback Method |
| cpg | 468.37 | J/molxK | 706.68 | Joback Method |
| cpg | 479.90 | J/molxK | 742.26 | Joback Method |
| cpg | 490.51 | J/molxK | 777.85 | Joback Method |
| cpg | 500.21 | J/molxK | 813.44 | Joback Method |
| cpg | 508.99 | J/molxK | 849.02 | Joback Method |
| cpg | 516.87 | J/molxK | 884.61 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C51920606&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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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