

Acetamide, n-(1,1-bis(p-chlorophenyl)-2,2,2-trifluoroethyl)-

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|-----------------------------|---|
| Inchi: | InChI=1S/C16H12Cl2F3NO/c1-10(23)22-15(16(19,20)21,11-2-6-13(17)7-3-11)12-4-8-14 |
| InchiKey: | NPRLBMKFRSLGSQ-UHFFFAOYSA-N |
| Formula: | C16H12Cl2F3NO |
| SMILES: | CC(=O)NC(c1ccc(Cl)cc1)(c1ccc(Cl)cc1)C(F)(F)F |
| Mol. weight [g/mol]: | 362.17 |
| CAS: | 2247-71-4 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -352.74 | kJ/mol | Joback Method |
| hf | -619.87 | kJ/mol | Joback Method |
| hfus | 34.00 | kJ/mol | Joback Method |
| hvap | 74.00 | kJ/mol | Joback Method |
| log10ws | -5.99 | | Crippen Method |
| logp | 4.935 | | Crippen Method |
| mcvol | 230.120 | ml/mol | McGowan Method |
| pc | 2034.55 | kPa | Joback Method |
| tb | 799.05 | K | Joback Method |
| tc | 1034.32 | K | Joback Method |
| tf | 517.00 | K | Joback Method |
| vc | 0.886 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 618.72 | J/molxK | 799.05 | Joback Method |
| cpg | 630.21 | J/molxK | 838.26 | Joback Method |
| cpg | 640.68 | J/molxK | 877.47 | Joback Method |
| cpg | 650.26 | J/molxK | 916.68 | Joback Method |
| cpg | 659.08 | J/molxK | 955.90 | Joback Method |
| cpg | 667.27 | J/molxK | 995.11 | Joback Method |
| cpg | 674.96 | J/molxK | 1034.32 | 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=C2247714&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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 |
| hvac: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mccol: | 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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