

Glutaric acid, 2-chloro-6-fluorophenyl pentachlorophenyl ester

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| Inchi: | InChI=1S/C17H9Cl6FO4/c18-7-3-1-4-8(24)16(7)27-9(25)5-2-6-10(26)28-17-14(22)12(20) |
| InchiKey: | XIYMPCNLPCASBA-UHFFFAOYSA-N |
| Formula: | C17H9Cl6FO4 |
| SMILES: | O=C(CCCC(=O)Oc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl)Oc1c(F)cccc1Cl |
| Mol. weight [g/mol]: | 508.97 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -484.56 | kJ/mol | Joback Method |
| hf | -781.59 | kJ/mol | Joback Method |
| hfus | 58.98 | kJ/mol | Joback Method |
| hvap | 106.43 | kJ/mol | Joback Method |
| log10ws | -8.61 | | Crippen Method |
| logp | 7.427 | | Crippen Method |
| mvol | 292.960 | ml/mol | McGowan Method |
| pc | 1641.76 | kPa | Joback Method |
| rinpol | 3185.00 | | NIST Webbook |
| rinpol | 3185.00 | | NIST Webbook |
| tb | 1053.01 | K | Joback Method |
| tc | 1301.75 | K | Joback Method |
| tf | 746.26 | K | Joback Method |
| vc | 1.131 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 717.56 | J/molxK | 1053.01 | Joback Method |
| cpg | 722.19 | J/molxK | 1094.47 | Joback Method |
| cpg | 725.53 | J/molxK | 1135.92 | Joback Method |
| cpg | 727.58 | J/molxK | 1177.38 | Joback Method |
| cpg | 728.35 | J/molxK | 1218.83 | Joback Method |
| cpg | 727.83 | J/molxK | 1260.29 | Joback Method |
| cpg | 726.02 | J/molxK | 1301.75 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U392205&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 |
| hvp: | 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 |
| rinp: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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