

Glutaric acid, di(2-(pentafluorophenoxy)ethyl) ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C21H14F10O6/c22-10-12(24)16(28)20(17(29)13(10)25)36-6-4-34-8(32)2-1-3-9 |
| InchiKey: | XESNITKCYHAJGC-UHFFFAOYSA-N |
| Formula: | C21H14F10O6 |
| SMILES: | O=C(CCCC(=O)OCCOc1c(F)c(F)c(F)c(F)c1F)OCCOc1c(F)c(F)c(F)c(F)c1F |
| Mol. weight [g/mol]: | 552.32 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -2371.48 | kJ/mol | Joback Method |
| hf | -2833.55 | kJ/mol | Joback Method |
| hfus | 73.09 | kJ/mol | Joback Method |
| hvap | 88.47 | kJ/mol | Joback Method |
| log10ws | -7.33 | | Crippen Method |
| logp | 4.792 | | Crippen Method |
| mcvol | 303.550 | ml/mol | McGowan Method |
| pc | 1031.25 | kPa | Joback Method |
| rinqol | 2617.00 | | NIST Webbook |
| tb | 973.16 | K | Joback Method |
| tc | 1199.82 | K | Joback Method |
| tf | 699.15 | K | Joback Method |
| vc | 1.260 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 950.96 | J/molxK | 973.16 | Joback Method |
| cpg | 960.66 | J/molxK | 1010.94 | Joback Method |
| cpg | 968.59 | J/molxK | 1048.71 | Joback Method |
| cpg | 974.70 | J/molxK | 1086.49 | Joback Method |
| cpg | 978.96 | J/molxK | 1124.26 | Joback Method |
| cpg | 981.32 | J/molxK | 1162.04 | Joback Method |
| cpg | 981.72 | J/molxK | 1199.82 | 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=U377332&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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 |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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