

Phthalic acid, decyl 2,3,4,5-tetrafluorobenzyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C25H28F4O4/c1-2-3-4-5-6-7-8-11-14-32-24(30)18-12-9-10-13-19(18)25(31)33 |
| InchiKey: | PNGFSNAOGROERM-UHFFFAOYSA-N |
| Formula: | C25H28F4O4 |
| SMILES: | CCCCCCCCCOC(=O)c1ccccc1C(=O)OCc1cc(F)c(F)c(F)c1F |
| Mol. weight [g/mol]: | 468.48 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -910.79 | kJ/mol | Joback Method |
| hf | -1417.66 | kJ/mol | Joback Method |
| hfus | 64.54 | kJ/mol | Joback Method |
| hvap | 94.15 | kJ/mol | Joback Method |
| log10ws | -9.16 | | Crippen Method |
| logp | 6.897 | | Crippen Method |
| mcvol | 337.550 | ml/mol | McGowan Method |
| pc | 1027.94 | kPa | Joback Method |
| rinsol | 2826.00 | | NIST Webbook |
| tb | 999.32 | K | Joback Method |
| tc | 1223.82 | K | Joback Method |
| tf | 633.63 | K | Joback Method |
| vc | 1.339 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1099.92 | J/molxK | 999.32 | Joback Method |
| cpg | 1113.09 | J/molxK | 1036.74 | Joback Method |
| cpg | 1124.77 | J/molxK | 1074.15 | Joback Method |
| cpg | 1134.98 | J/molxK | 1111.57 | Joback Method |
| cpg | 1143.76 | J/molxK | 1148.98 | Joback Method |
| cpg | 1151.14 | J/molxK | 1186.40 | Joback Method |
| cpg | 1157.16 | J/molxK | 1223.82 | 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=U377733&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |

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 |
| mccvol: | 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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