

Glutaric acid, hex-4-yn-3-yl pentafluorobenzyl ester

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C18H17F5O4/c1-3-6-10(4-2)27-13(25)8-5-7-12(24)26-9-11-14(19)16(21)18(23) |
| InchiKey: | HFXPEDGNKPYJCL-UHFFFAOYSA-N |
| Formula: | C18H17F5O4 |
| SMILES: | CC#CC(CC)OC(=O)CCCC(=O)OCc1c(F)c(F)c(F)c(F)c1F |
| Mol. weight [g/mol]: | 392.32 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -1076.59 | kJ/mol | Joback Method |
| hf | -1438.80 | kJ/mol | Joback Method |
| hfus | 55.05 | kJ/mol | Joback Method |
| hvap | 77.24 | kJ/mol | Joback Method |
| log10ws | -6.25 | | Crippen Method |
| logp | 3.941 | | Crippen Method |
| mcvol | 255.850 | ml/mol | McGowan Method |
| pc | 1418.64 | kPa | Joback Method |
| rinpol | 2047.00 | | NIST Webbook |
| rinpol | 2047.00 | | NIST Webbook |
| tb | 820.31 | K | Joback Method |
| tc | 1014.01 | K | Joback Method |
| tf | 620.01 | K | Joback Method |
| vc | 1.030 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 745.41 | J/molxK | 820.31 | Joback Method |
| cpg | 757.99 | J/molxK | 852.59 | Joback Method |
| cpg | 769.69 | J/molxK | 884.88 | Joback Method |
| cpg | 780.48 | J/molxK | 917.16 | Joback Method |
| cpg | 790.37 | J/molxK | 949.45 | Joback Method |
| cpg | 799.36 | J/molxK | 981.73 | Joback Method |
| cpg | 807.44 | J/molxK | 1014.01 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U391932&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 |

Latest version available from:

<https://www.chemeo.com/cid/99-302-7/Glutaric-acid-hex-4-yn-3-yl-pentafluorobenzyl-ester.pdf>

Generated by Cheméo on 2024-05-08 15:39:56.086645451 +0000 UTC m=+17472045.007222773.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.