

Isophthalic acid, pentyl tridec-2-ynyl ester

Inchi: InChI=1S/C26H38O4/c1-3-5-7-8-9-10-11-12-13-14-16-21-30-26(28)24-19-17-18-23(22-2
InchiKey: QZPNOOSVJECST-UHFFFAOYSA-N
Formula: C26H38O4
SMILES: CCCCCCCCCC#CCOC(=O)c1cccc(C(=O)OCCCC)c1
Mol. weight [g/mol]: 414.58

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | 5.78 | kJ/mol | Joback Method |
| hf | -572.21 | kJ/mol | Joback Method |
| hfus | 65.44 | kJ/mol | Joback Method |
| hvap | 96.87 | kJ/mol | Joback Method |
| log10ws | -8.45 | | Crippen Method |
| logp | 6.725 | | Crippen Method |
| mvol | 359.720 | ml/mol | McGowan Method |
| pc | 1010.37 | kPa | Joback Method |
| rinpol | 3181.00 | | NIST Webbook |
| rinpol | 3181.00 | | NIST Webbook |
| tb | 987.52 | K | Joback Method |
| tc | 1209.32 | K | Joback Method |
| tf | 672.14 | K | Joback Method |
| vc | 1.393 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1187.38 | J/molxK | 987.52 | Joback Method |
| cpg | 1203.66 | J/molxK | 1024.49 | Joback Method |
| cpg | 1218.47 | J/molxK | 1061.45 | Joback Method |
| cpg | 1231.84 | J/molxK | 1098.42 | Joback Method |
| cpg | 1243.81 | J/molxK | 1135.39 | Joback Method |
| cpg | 1254.45 | J/molxK | 1172.35 | Joback Method |
| cpg | 1263.78 | J/molxK | 1209.32 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U343916&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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