

Glutaric acid, hexyl 3-phenoxybenzyl ester

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| Inchi: | InChI=1S/C24H30O5/c1-2-3-4-8-17-27-23(25)15-10-16-24(26)28-19-20-11-9-14-22(18-2 |
| InchiKey: | VSJDBPNJOWTVHP-UHFFFAOYSA-N |
| Formula: | C24H30O5 |
| SMILES: | CCCCCOC(=O)CCCC(=O)OCc1cccc(Oc2ccccc2)c1 |
| Mol. weight [g/mol]: | 398.49 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -206.45 | kJ/mol | Joback Method |
| hf | -698.92 | kJ/mol | Joback Method |
| hfus | 52.37 | kJ/mol | Joback Method |
| hvap | 94.95 | kJ/mol | Joback Method |
| log10ws | -6.32 | | Crippen Method |
| logp | 5.816 | | Crippen Method |
| mcvol | 322.250 | ml/mol | McGowan Method |
| pc | 1275.51 | kPa | Joback Method |
| rinqol | 3074.00 | | NIST Webbook |
| tb | 981.86 | K | Joback Method |
| tc | 1206.57 | K | Joback Method |
| tf | 592.15 | K | Joback Method |
| vc | 1.230 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1044.22 | J/molxK | 981.86 | Joback Method |
| cpg | 1057.73 | J/molxK | 1019.31 | Joback Method |
| cpg | 1069.72 | J/molxK | 1056.76 | Joback Method |
| cpg | 1080.21 | J/molxK | 1094.22 | Joback Method |
| cpg | 1089.24 | J/molxK | 1131.67 | Joback Method |
| cpg | 1096.85 | J/molxK | 1169.12 | Joback Method |
| cpg | 1103.08 | J/molxK | 1206.57 | Joback Method |
| dvisc | 0.0002370 | Paxs | 592.15 | Joback Method |
| dvisc | 0.0001334 | Paxs | 657.10 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000832 | Paxs | 722.05 | Joback Method |
| dvisc | 0.0000561 | Paxs | 787.00 | Joback Method |
| dvisc | 0.0000402 | Paxs | 851.96 | Joback Method |
| dvisc | 0.0000302 | Paxs | 916.91 | Joback Method |
| dvisc | 0.0000236 | Paxs | 981.86 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U359259&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 |
| dvisc: | Dynamic viscosity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hvap: | 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 |
| 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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