

Pimelic acid, hexyl 4-methoxybenzyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C21H32O5/c1-3-4-5-9-16-25-20(22)10-7-6-8-11-21(23)26-17-18-12-14-19(24-25) |
| InchiKey: | YPVRQGGFZIHWBK-UHFFFAOYSA-N |
| Formula: | C21H32O5 |
| SMILES: | CCCCCOC(=O)CCCCC(=O)OCc1ccc(OC)cc1 |
| Mol. weight [g/mol]: | 364.48 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -344.12 | kJ/mol | Joback Method |
| hf | -873.53 | kJ/mol | Joback Method |
| hfus | 50.56 | kJ/mol | Joback Method |
| hvap | 86.00 | kJ/mol | Joback Method |
| log10ws | -5.64 | | Crippen Method |
| logp | 4.812 | | Crippen Method |
| mvol | 303.740 | ml/mol | McGowan Method |
| pc | 1237.22 | kPa | Joback Method |
| rinpol | 2814.00 | | NIST Webbook |
| rinpol | 2814.00 | | NIST Webbook |
| tb | 886.54 | K | Joback Method |
| tc | 1089.96 | K | Joback Method |
| tf | 531.92 | K | Joback Method |
| vc | 1.169 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 966.74 | J/molxK | 886.54 | Joback Method |
| cpg | 982.57 | J/molxK | 920.44 | Joback Method |
| cpg | 997.11 | J/molxK | 954.35 | Joback Method |
| cpg | 1010.40 | J/molxK | 988.25 | Joback Method |
| cpg | 1022.43 | J/molxK | 1022.15 | Joback Method |
| cpg | 1033.23 | J/molxK | 1056.05 | Joback Method |
| cpg | 1042.80 | J/molxK | 1089.96 | Joback Method |
| dvisc | 0.0003742 | Paxs | 531.92 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0002078 | Paxs | 591.02 | Joback Method |
| dvisc | 0.0001284 | Paxs | 650.13 | Joback Method |
| dvisc | 0.0000860 | Paxs | 709.23 | Joback Method |
| dvisc | 0.0000612 | Paxs | 768.33 | Joback Method |
| dvisc | 0.0000458 | Paxs | 827.44 | Joback Method |
| dvisc | 0.0000356 | Paxs | 886.54 | 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=U416541&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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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