

Glutaric acid, dec-2-yl 5-methyl-2-methoxybenzyl ester

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| Inchi: | InChI=1S/C23H36O5/c1-5-6-7-8-9-10-12-19(3)27-22(24)13-11-14-23(25)28-21-17-18(2) |
| InchiKey: | MRGXYTCQVIUYAJ-UHFFFAOYSA-N |
| Formula: | C23H36O5 |
| SMILES: | CCCCCCCC(C)OC(=O)CCCC(=O)Oc1cc(C)ccc1OC |
| Mol. weight [g/mol]: | 392.53 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -339.35 | kJ/mol | Joback Method |
| hf | -931.56 | kJ/mol | Joback Method |
| hfus | 51.83 | kJ/mol | Joback Method |
| hvap | 90.73 | kJ/mol | Joback Method |
| log10ws | -6.80 | | Crippen Method |
| logp | 5.762 | | Crippen Method |
| mcvol | 331.920 | ml/mol | McGowan Method |
| pc | 1080.64 | kPa | Joback Method |
| rinpol | 2734.00 | | NIST Webbook |
| rinpol | 2734.00 | | NIST Webbook |
| tb | 936.84 | K | Joback Method |
| tc | 1147.96 | K | Joback Method |
| tf | 551.98 | K | Joback Method |
| vc | 1.276 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1087.61 | J/molxK | 936.84 | Joback Method |
| cpg | 1103.67 | J/molxK | 972.03 | Joback Method |
| cpg | 1118.26 | J/molxK | 1007.21 | Joback Method |
| cpg | 1131.39 | J/molxK | 1042.40 | Joback Method |
| cpg | 1143.07 | J/molxK | 1077.59 | Joback Method |
| cpg | 1153.31 | J/molxK | 1112.78 | Joback Method |
| cpg | 1162.14 | J/molxK | 1147.96 | Joback Method |
| dvisc | 0.0002883 | Paxs | 551.98 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001546 | Paxs | 616.12 | Joback Method |
| dvisc | 0.0000933 | Paxs | 680.27 | Joback Method |
| dvisc | 0.0000614 | Paxs | 744.41 | Joback Method |
| dvisc | 0.0000432 | Paxs | 808.55 | Joback Method |
| dvisc | 0.0000320 | Paxs | 872.70 | Joback Method |
| dvisc | 0.0000247 | Paxs | 936.84 | 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=U393931&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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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