

Glutaric acid, 2-methylhex-3-yl 3-methyl-2-nitrobenzyl ester

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| Inchi: | InChI=1S/C20H29NO6/c1-5-8-17(14(2)3)27-19(23)12-7-11-18(22)26-13-16-10-6-9-15(4) |
| InchiKey: | OFSIPRYWLKNWHI-UHFFFAOYSA-N |
| Formula: | C20H29NO6 |
| SMILES: | CCCC(OC(=O)CCCC(=O)OCc1cccc(C)c1[N+](=O)[O-])C(C)C |
| Mol. weight [g/mol]: | 379.45 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -226.50 | kJ/mol | Joback Method |
| hf | -753.46 | kJ/mol | Joback Method |
| hfus | 50.71 | kJ/mol | Joback Method |
| hvap | 97.84 | kJ/mol | Joback Method |
| log10ws | -6.10 | | Crippen Method |
| logp | 4.485 | | Crippen Method |
| mcvol | 301.200 | ml/mol | McGowan Method |
| pc | 1354.63 | kPa | Joback Method |
| rinpola | 2630.00 | | NIST Webbook |
| tb | 997.18 | K | Joback Method |
| tc | 1226.07 | K | Joback Method |
| tf | 624.55 | K | Joback Method |
| vc | 1.165 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 987.92 | J/molxK | 997.18 | Joback Method |
| cpg | 1000.35 | J/molxK | 1035.33 | Joback Method |
| cpg | 1011.33 | J/molxK | 1073.48 | Joback Method |
| cpg | 1020.91 | J/molxK | 1111.63 | Joback Method |
| cpg | 1029.10 | J/molxK | 1149.77 | Joback Method |
| cpg | 1035.94 | J/molxK | 1187.92 | Joback Method |
| cpg | 1041.47 | J/molxK | 1226.07 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U376735&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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 |
| 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 |
| rinpola: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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