

Glutaric acid, 8-chlorooctyl 4-methoxybenzyl ester

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|----------------------|--|
| Inchi: | InChI=1S/C21H31ClO5/c1-25-19-13-11-18(12-14-19)17-27-21(24)10-8-9-20(23)26-16-7- |
| InchiKey: | VBUFEVSKMSIRTQ-UHFFFAOYSA-N |
| Formula: | C21H31ClO5 |
| SMILES: | COc1ccc(COC(=O)CCCC(=O)OCCCCCCCCCl)cc1 |
| Mol. weight [g/mol]: | 398.92 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -356.05 | kJ/mol | Joback Method |
| hf | -889.27 | kJ/mol | Joback Method |
| hfus | 54.76 | kJ/mol | Joback Method |
| hvap | 90.38 | kJ/mol | Joback Method |
| log10ws | -5.79 | | Crippen Method |
| logp | 5.031 | | Crippen Method |
| mvol | 315.980 | ml/mol | McGowan Method |
| pc | 1205.63 | kPa | Joback Method |
| rinpol | 3084.00 | | NIST Webbook |
| rinpol | 3084.00 | | NIST Webbook |
| tb | 923.97 | K | Joback Method |
| tc | 1133.80 | K | Joback Method |
| tf | 561.84 | K | Joback Method |
| vc | 1.218 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 992.98 | J/molxK | 923.97 | Joback Method |
| cpg | 1007.56 | J/molxK | 958.94 | Joback Method |
| cpg | 1020.81 | J/molxK | 993.91 | Joback Method |
| cpg | 1032.75 | J/molxK | 1028.89 | Joback Method |
| cpg | 1043.39 | J/molxK | 1063.86 | Joback Method |
| cpg | 1052.76 | J/molxK | 1098.83 | Joback Method |
| cpg | 1060.86 | J/molxK | 1133.80 | Joback Method |
| dvisc | 0.0003027 | Paxs | 561.84 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001712 | Paxs | 622.20 | Joback Method |
| dvisc | 0.0001071 | Paxs | 682.55 | Joback Method |
| dvisc | 0.0000723 | Paxs | 742.90 | Joback Method |
| dvisc | 0.0000518 | Paxs | 803.26 | Joback Method |
| dvisc | 0.0000389 | Paxs | 863.62 | Joback Method |
| dvisc | 0.0000303 | Paxs | 923.97 | 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=U391748&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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