

Glutaric acid, 2,4-dichlorobenzyl nonyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C21H30Cl2O4/c1-2-3-4-5-6-7-8-14-26-20(24)10-9-11-21(25)27-16-17-12-13-18 |
| InchiKey: | MYHSYNGEOPYMFW-UHFFFAOYSA-N |
| Formula: | C21H30Cl2O4 |
| SMILES: | CCCCCCCCCOC(=O)CCCC(=O)OCc1ccc(Cl)cc1Cl |
| Mol. weight [g/mol]: | 417.37 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -272.61 | kJ/mol | Joback Method |
| hf | -784.26 | kJ/mol | Joback Method |
| hfus | 57.38 | kJ/mol | Joback Method |
| hvap | 93.02 | kJ/mol | Joback Method |
| log10ws | -7.31 | | Crippen Method |
| logp | 6.501 | | Crippen Method |
| mvol | 322.350 | ml/mol | McGowan Method |
| pc | 1176.85 | kPa | Joback Method |
| rinpol | 2925.00 | | NIST Webbook |
| rinpol | 2925.00 | | NIST Webbook |
| tb | 943.96 | K | Joback Method |
| tc | 1158.36 | K | Joback Method |
| tf | 582.05 | K | Joback Method |
| vc | 1.250 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 988.45 | J/molxK | 943.96 | Joback Method |
| cpg | 1002.36 | J/molxK | 979.69 | Joback Method |
| cpg | 1015.03 | J/molxK | 1015.43 | Joback Method |
| cpg | 1026.47 | J/molxK | 1051.16 | Joback Method |
| cpg | 1036.72 | J/molxK | 1086.89 | Joback Method |
| cpg | 1045.81 | J/molxK | 1122.62 | Joback Method |
| cpg | 1053.76 | J/molxK | 1158.36 | Joback Method |
| dvisc | 0.0003100 | Paxs | 582.05 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001821 | Paxs | 642.37 | Joback Method |
| dvisc | 0.0001172 | Paxs | 702.69 | Joback Method |
| dvisc | 0.0000809 | Paxs | 763.00 | Joback Method |
| dvisc | 0.0000589 | Paxs | 823.32 | Joback Method |
| dvisc | 0.0000448 | Paxs | 883.64 | Joback Method |
| dvisc | 0.0000353 | Paxs | 943.96 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U376808&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

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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