

Glutaric acid, di(8-chlorooctyl) ester

Inchi: InChI=1S/C21H38Cl2O4/c22-16-9-5-1-3-7-11-18-26-20(24)14-13-15-21(25)27-19-12-8-4
InchiKey: YMTYKVSZHOIKLD-UHFFFAOYSA-N
Formula: C21H38Cl2O4
SMILES: O=C(CCCC(=O)OCCCCCCCCCl)OCCCCCCCCCl
Mol. weight [g/mol]: 425.43

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -365.76 | kJ/mol | Joback Method |
| hf | -997.85 | kJ/mol | Joback Method |
| hfus | 64.11 | kJ/mol | Joback Method |
| hvap | 89.42 | kJ/mol | Joback Method |
| log10ws | -6.64 | | Crippen Method |
| logp | 6.402 | | Crippen Method |
| mvol | 346.110 | ml/mol | McGowan Method |
| pc | 966.87 | kPa | Joback Method |
| rinpol | 3197.00 | | NIST Webbook |
| rinpol | 3197.00 | | NIST Webbook |
| tb | 907.32 | K | Joback Method |
| tc | 1110.88 | K | Joback Method |
| tf | 530.59 | K | Joback Method |
| vc | 1.357 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1091.16 | J/molxK | 907.32 | Joback Method |
| cpg | 1163.44 | J/molxK | 1076.96 | Joback Method |
| cpg | 1151.33 | J/molxK | 1043.03 | Joback Method |
| cpg | 1138.07 | J/molxK | 1009.10 | Joback Method |
| cpg | 1123.65 | J/molxK | 975.17 | Joback Method |
| cpg | 1108.02 | J/molxK | 941.25 | Joback Method |
| cpg | 1174.43 | J/molxK | 1110.88 | Joback Method |
| dvisc | 0.0000330 | Paxs | 907.32 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0000435 | Paxs | 844.53 | Joback Method |
| dvisc | 0.0000599 | Paxs | 781.74 | Joback Method |
| dvisc | 0.0000873 | Paxs | 718.95 | Joback Method |
| dvisc | 0.0001366 | Paxs | 656.17 | Joback Method |
| dvisc | 0.0002351 | Paxs | 593.38 | Joback Method |
| dvisc | 0.0004601 | Paxs | 530.59 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U359597&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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 |
| 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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