

Glutaric acid, 3-chlorophenyl 4-methylpent-2-yl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C17H23ClO4/c1-12(2)10-13(3)21-16(19)8-5-9-17(20)22-15-7-4-6-14(18)11-15 |
| InchiKey: | UPYPPJMKHFGZFD-UHFFFAOYSA-N |
| Formula: | C17H23ClO4 |
| SMILES: | CC(C)CC(C)OC(=O)CCCC(=O)Oc1cccc(Cl)c1 |
| Mol. weight [g/mol]: | 326.81 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -289.61 | kJ/mol | Joback Method |
| hf | -685.05 | kJ/mol | Joback Method |
| hfus | 36.16 | kJ/mol | Joback Method |
| hvap | 78.30 | kJ/mol | Joback Method |
| log10ws | -4.97 | | Crippen Method |
| logp | 4.393 | | Crippen Method |
| mcvol | 253.750 | ml/mol | McGowan Method |
| pc | 1648.43 | kPa | Joback Method |
| rinpol | 2178.00 | | NIST Webbook |
| rinpol | 2178.00 | | NIST Webbook |
| tb | 809.15 | K | Joback Method |
| tc | 1018.80 | K | Joback Method |
| tf | 464.53 | K | Joback Method |
| vc | 0.965 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 732.45 | J/molxK | 809.15 | Joback Method |
| cpg | 747.08 | J/molxK | 844.09 | Joback Method |
| cpg | 760.60 | J/molxK | 879.03 | Joback Method |
| cpg | 773.05 | J/molxK | 913.98 | Joback Method |
| cpg | 784.43 | J/molxK | 948.92 | Joback Method |
| cpg | 794.77 | J/molxK | 983.86 | Joback Method |
| cpg | 804.08 | J/molxK | 1018.80 | Joback Method |
| dvisc | 0.0008514 | Paxs | 464.53 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0004307 | Paxs | 521.97 | Joback Method |
| dvisc | 0.0002494 | Paxs | 579.40 | Joback Method |
| dvisc | 0.0001594 | Paxs | 636.84 | Joback Method |
| dvisc | 0.0001097 | Paxs | 694.28 | Joback Method |
| dvisc | 0.0000799 | Paxs | 751.71 | Joback Method |
| dvisc | 0.0000609 | Paxs | 809.15 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U392495&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |

Legend

| | |
|----------------------------|---|
| cp_g: | 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: | Log ₁₀ of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| m_{cvol}: | 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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