

Succinic acid, 8-chlorooctyl 2,3-dimethylphenyl ester

Inchi: InChI=1S/C20H29ClO4/c1-16-10-9-11-18(17(16)2)25-20(23)13-12-19(22)24-15-8-6-4-3-5
InchiKey: XCCQPUKILBFURL-UHFFFAOYSA-N
Formula: C20H29ClO4
SMILES: Cc1cccc(OC(=O)CCC(=O)OCCCCCCCCCl)c1C
Mol. weight [g/mol]: 368.89

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -269.10 | kJ/mol | Joback Method |
| hf | -747.88 | kJ/mol | Joback Method |
| hfus | 50.59 | kJ/mol | Joback Method |
| hvap | 86.41 | kJ/mol | Joback Method |
| log10ws | -5.94 | | Crippen Method |
| logp | 5.112 | | Crippen Method |
| mvol | 296.020 | ml/mol | McGowan Method |
| pc | 1292.07 | kPa | Joback Method |
| rinpol | 2852.00 | | NIST Webbook |
| rinpol | 2852.00 | | NIST Webbook |
| tb | 883.65 | K | Joback Method |
| tc | 1089.89 | K | Joback Method |
| tf | 540.86 | K | Joback Method |
| vc | 1.145 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 904.12 | J/molxK | 883.65 | Joback Method |
| cpg | 967.13 | J/molxK | 1055.52 | Joback Method |
| cpg | 956.77 | J/molxK | 1021.14 | Joback Method |
| cpg | 945.31 | J/molxK | 986.77 | Joback Method |
| cpg | 932.72 | J/molxK | 952.40 | Joback Method |
| cpg | 919.00 | J/molxK | 918.02 | Joback Method |
| cpg | 976.41 | J/molxK | 1089.89 | Joback Method |
| dvisc | 0.0000480 | Paxs | 883.65 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000609 | Paxs | 826.52 | Joback Method |
| dvisc | 0.0000799 | Paxs | 769.39 | Joback Method |
| dvisc | 0.0001097 | Paxs | 712.25 | Joback Method |
| dvisc | 0.0001590 | Paxs | 655.12 | Joback Method |
| dvisc | 0.0002474 | Paxs | 597.99 | Joback Method |
| dvisc | 0.0004227 | Paxs | 540.86 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U390030&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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