

Succinic acid, 2-bromophenethyl decyl ester

Inchi: InChI=1S/C22H33BrO4/c1-2-3-4-5-6-7-8-11-17-26-21(24)14-15-22(25)27-18-16-19-12-9
InchiKey: RDEHZSOYSHBRFC-UHFFFAOYSA-N
Formula: C22H33BrO4
SMILES: CCCCCCCCCCOC(=O)CCC(=O)OCCc1ccccc1Br
Mol. weight [g/mol]: 441.40

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -216.38 | kJ/mol | Joback Method |
| hf | -735.62 | kJ/mol | Joback Method |
| hfus | 57.25 | kJ/mol | Joback Method |
| hvap | 92.25 | kJ/mol | Joback Method |
| log10ws | -7.02 | | Crippen Method |
| logp | 5.999 | | Crippen Method |
| mcvol | 329.460 | ml/mol | McGowan Method |
| pc | 1228.56 | kPa | Joback Method |
| rinpol | 2930.00 | | NIST Webbook |
| rinpol | 2930.00 | | NIST Webbook |
| tb | 953.16 | K | Joback Method |
| tc | 1169.05 | K | Joback Method |
| tf | 580.76 | K | Joback Method |
| vc | 1.270 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1037.74 | J/molxK | 953.16 | Joback Method |
| cpg | 1052.63 | J/molxK | 989.14 | Joback Method |
| cpg | 1066.27 | J/molxK | 1025.12 | Joback Method |
| cpg | 1078.70 | J/molxK | 1061.10 | Joback Method |
| cpg | 1089.98 | J/molxK | 1097.08 | Joback Method |
| cpg | 1100.14 | J/molxK | 1133.06 | Joback Method |
| cpg | 1109.23 | J/molxK | 1169.05 | Joback Method |
| dvisc | 0.0003088 | Paxs | 580.76 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001759 | Paxs | 642.83 | Joback Method |
| dvisc | 0.0001106 | Paxs | 704.89 | Joback Method |
| dvisc | 0.0000750 | Paxs | 766.96 | Joback Method |
| dvisc | 0.0000539 | Paxs | 829.03 | Joback Method |
| dvisc | 0.0000406 | Paxs | 891.09 | Joback Method |
| dvisc | 0.0000317 | Paxs | 953.16 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U381456&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 |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |

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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