

Succinic acid, dodecyl 2-methoxybenzyl ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C24H38O5/c1-3-4-5-6-7-8-9-10-11-14-19-28-23(25)17-18-24(26)29-20-21-15- |
| InchiKey: | CFOCRAWMMLOGIV-UHFFFAOYSA-N |
| Formula: | C24H38O5 |
| SMILES: | CCCCCCCCCCCCOC(=O)CCC(=O)OCc1ccccc1OC |
| Mol. weight [g/mol]: | 406.56 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -318.86 | kJ/mol | Joback Method |
| hf | -935.45 | kJ/mol | Joback Method |
| hfus | 58.33 | kJ/mol | Joback Method |
| hvap | 92.68 | kJ/mol | Joback Method |
| log10ws | -6.89 | | Crippen Method |
| logp | 5.983 | | Crippen Method |
| mvol | 346.010 | ml/mol | McGowan Method |
| pc | 1020.08 | kPa | Joback Method |
| rinpol | 2962.00 | | NIST Webbook |
| rinpol | 2962.00 | | NIST Webbook |
| tb | 955.18 | K | Joback Method |
| tc | 1169.41 | K | Joback Method |
| tf | 565.73 | K | Joback Method |
| vc | 1.337 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1149.17 | J/molxK | 955.18 | Joback Method |
| cpg | 1216.01 | J/molxK | 1133.71 | Joback Method |
| cpg | 1205.60 | J/molxK | 1098.00 | Joback Method |
| cpg | 1193.74 | J/molxK | 1062.30 | Joback Method |
| cpg | 1180.40 | J/molxK | 1026.59 | Joback Method |
| cpg | 1165.55 | J/molxK | 990.89 | Joback Method |
| cpg | 1224.99 | J/molxK | 1169.41 | Joback Method |
| dvisc | 0.0000228 | Paxs | 955.18 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000296 | Paxs | 890.27 | Joback Method |
| dvisc | 0.0000400 | Paxs | 825.36 | Joback Method |
| dvisc | 0.0000569 | Paxs | 760.45 | Joback Method |
| dvisc | 0.0000864 | Paxs | 695.55 | Joback Method |
| dvisc | 0.0001432 | Paxs | 630.64 | Joback Method |
| dvisc | 0.0002663 | Paxs | 565.73 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U381214&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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