

Sebacic acid, octyl phenyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C24H38O4/c1-2-3-4-5-10-16-21-27-23(25)19-14-8-6-7-9-15-20-24(26)28-22-17 |
| InchiKey: | JEFKJYWJJPKYEL-UHFFFAOYSA-N |
| Formula: | C24H38O4 |
| SMILES: | CCCCCCCCOC(=O)CCCCCCCC(=O)Oc1ccccc1 |
| Mol. weight [g/mol]: | 390.56 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -204.23 | kJ/mol | Joback Method |
| hf | -791.76 | kJ/mol | Joback Method |
| hfus | 57.53 | kJ/mol | Joback Method |
| hvap | 89.61 | kJ/mol | Joback Method |
| log10ws | -7.35 | | Crippen Method |
| logp | 6.616 | | Crippen Method |
| mvol | 340.140 | ml/mol | McGowan Method |
| pc | 1041.25 | kPa | Joback Method |
| rinpol | 2983.00 | | NIST Webbook |
| rinpol | 2983.00 | | NIST Webbook |
| tb | 927.78 | K | Joback Method |
| tc | 1136.42 | K | Joback Method |
| tf | 530.98 | K | Joback Method |
| vc | 1.319 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1119.96 | J/molxK | 927.78 | Joback Method |
| cpg | 1137.09 | J/molxK | 962.55 | Joback Method |
| cpg | 1152.87 | J/molxK | 997.33 | Joback Method |
| cpg | 1167.34 | J/molxK | 1032.10 | Joback Method |
| cpg | 1180.56 | J/molxK | 1066.87 | Joback Method |
| cpg | 1192.57 | J/molxK | 1101.65 | Joback Method |
| cpg | 1203.40 | J/molxK | 1136.42 | Joback Method |
| dvisc | 0.0004449 | Paxs | 530.98 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0002217 | Paxs | 597.11 | Joback Method |
| dvisc | 0.0001269 | Paxs | 663.25 | Joback Method |
| dvisc | 0.0000804 | Paxs | 729.38 | Joback Method |
| dvisc | 0.0000549 | Paxs | 795.51 | Joback Method |
| dvisc | 0.0000398 | Paxs | 861.65 | Joback Method |
| dvisc | 0.0000302 | Paxs | 927.78 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U354512&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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