

Sebacic acid, 3-methylphenyl nonyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C26H42O4/c1-3-4-5-6-9-12-15-21-29-25(27)19-13-10-7-8-11-14-20-26(28)30-2 |
| InchiKey: | XHYBSDLOOSBPMJ-UHFFFAOYSA-N |
| Formula: | C26H42O4 |
| SMILES: | CCCCCCCCCOC(=O)CCCCCCCCC(=O)Oc1cccc(C)c1 |
| Mol. weight [g/mol]: | 418.61 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -197.02 | kJ/mol | Joback Method |
| hf | -844.51 | kJ/mol | Joback Method |
| hfus | 62.32 | kJ/mol | Joback Method |
| hvap | 94.72 | kJ/mol | Joback Method |
| log10ws | -8.24 | | Crippen Method |
| logp | 7.315 | | Crippen Method |
| mcvol | 368.320 | ml/mol | McGowan Method |
| pc | 914.94 | kPa | Joback Method |
| rinpol | 3174.00 | | NIST Webbook |
| tb | 978.52 | K | Joback Method |
| tc | 1198.52 | K | Joback Method |
| tf | 566.04 | K | Joback Method |
| vc | 1.431 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1243.68 | J/molxK | 978.52 | Joback Method |
| cpg | 1261.26 | J/molxK | 1015.19 | Joback Method |
| cpg | 1277.29 | J/molxK | 1051.85 | Joback Method |
| cpg | 1291.83 | J/molxK | 1088.52 | Joback Method |
| cpg | 1304.93 | J/molxK | 1125.19 | Joback Method |
| cpg | 1316.64 | J/molxK | 1161.85 | Joback Method |
| cpg | 1327.00 | J/molxK | 1198.52 | Joback Method |
| dvisc | 0.0003036 | Paxs | 566.04 | Joback Method |
| dvisc | 0.0001561 | Paxs | 634.79 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000914 | Paxs | 703.53 | Joback Method |
| dvisc | 0.0000589 | Paxs | 772.28 | Joback Method |
| dvisc | 0.0000407 | Paxs | 841.03 | Joback Method |
| dvisc | 0.0000298 | Paxs | 909.77 | Joback Method |
| dvisc | 0.0000228 | Paxs | 978.52 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U354931&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

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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<https://www.chemeo.com/cid/26-020-0/Sebacic-acid-3-methylphenyl-nonyl-ester.pdf>

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