

Isophthalic acid, 2-isopropoxyphenyl undecyl ester

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|----------------------|---|
| Inchi: | InChI=1S/C28H38O5/c1-4-5-6-7-8-9-10-11-14-20-31-27(29)23-16-15-17-24(21-23)28(30) |
| InchiKey: | SDHHJYWIJBYNME-UHFFFAOYSA-N |
| Formula: | C28H38O5 |
| SMILES: | CCCCCCCCCOC(=O)c1cccc(C(=O)Oc2ccccc2OC(C)C)c1 |
| Mol. weight [g/mol]: | 454.60 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -184.84 | kJ/mol | Joback Method |
| hf | -798.23 | kJ/mol | Joback Method |
| hfus | 58.82 | kJ/mol | Joback Method |
| hvap | 104.13 | kJ/mol | Joback Method |
| log10ws | -9.06 | | Crippen Method |
| logp | 7.381 | | Crippen Method |
| mvol | 378.610 | ml/mol | McGowan Method |
| pc | 982.08 | kPa | Joback Method |
| rinpol | 3421.00 | | NIST Webbook |
| rinpol | 3421.00 | | NIST Webbook |
| tb | 1077.92 | K | Joback Method |
| tc | 1320.01 | K | Joback Method |
| tf | 634.75 | K | Joback Method |
| vc | 1.448 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1285.83 | J/molxK | 1077.92 | Joback Method |
| cpg | 1298.97 | J/molxK | 1118.27 | Joback Method |
| cpg | 1310.18 | J/molxK | 1158.62 | Joback Method |
| cpg | 1319.53 | J/molxK | 1198.97 | Joback Method |
| cpg | 1327.06 | J/molxK | 1239.31 | Joback Method |
| cpg | 1332.85 | J/molxK | 1279.66 | Joback Method |
| cpg | 1336.93 | J/molxK | 1320.01 | Joback Method |
| dvisc | 0.0001406 | Paxs | 634.75 | Joback Method |

| | | | | |
|-------|-----------|------|---------|---------------|
| dvisc | 0.0000752 | Paxs | 708.61 | Joback Method |
| dvisc | 0.0000453 | Paxs | 782.47 | Joback Method |
| dvisc | 0.0000298 | Paxs | 856.34 | Joback Method |
| dvisc | 0.0000209 | Paxs | 930.20 | Joback Method |
| dvisc | 0.0000155 | Paxs | 1004.06 | Joback Method |
| dvisc | 0.0000119 | Paxs | 1077.92 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U344435&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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<https://www.chemeo.com/cid/91-810-1/Isophthalic-acid-2-isopropoxyphenyl-undecyl-ester.pdf>

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