

Di(Z)-non-3-enyl phthalate

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|-----------------------------|---|
| Other names: | 1,2-Benzenedicarboxylic acid, di(Z)-non-3-enyl ester Di(Z)-non-3-enyl-1,2-benzenedicarboxylate |
| Inchi: | InChI=1S/C26H38O4/c1-3-5-7-9-11-13-17-21-29-25(27)23-19-15-16-20-24(23)26(28)30- |
| InchiKey: | QKKJDMQLYBFXCG-XSYHWHKQSA-N |
| Formula: | C26H38O4 |
| SMILES: | CCCCC=CCCOC(=O)c1cccc1C(=O)OCC=CCCCC |
| Mol. weight [g/mol]: | 414.58 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -36.58 | kJ/mol | Joback Method |
| hf | -610.07 | kJ/mol | Joback Method |
| hfus | 62.73 | kJ/mol | Joback Method |
| hvap | 94.64 | kJ/mol | Joback Method |
| log10ws | -8.36 | | Crippen Method |
| logp | 7.053 | | Crippen Method |
| mcvol | 359.720 | ml/mol | McGowan Method |
| pc | 975.34 | kPa | Joback Method |
| rinpol | 2947.00 | | NIST Webbook |
| tb | 986.84 | K | Joback Method |
| tc | 1208.20 | K | Joback Method |
| tf | 555.88 | K | Joback Method |
| vc | 1.391 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1186.80 | J/molxK | 986.84 | Joback Method |
| cpg | 1203.78 | J/molxK | 1023.73 | Joback Method |
| cpg | 1219.54 | J/molxK | 1060.63 | Joback Method |
| cpg | 1234.16 | J/molxK | 1097.52 | Joback Method |
| cpg | 1247.73 | J/molxK | 1134.42 | Joback Method |
| cpg | 1260.33 | J/molxK | 1171.31 | Joback Method |
| cpg | 1272.03 | J/molxK | 1208.20 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0002600 | Paxs | 555.88 | Joback Method |
| dvisc | 0.0001284 | Paxs | 627.71 | Joback Method |
| dvisc | 0.0000732 | Paxs | 699.53 | Joback Method |
| dvisc | 0.0000464 | Paxs | 771.36 | Joback Method |
| dvisc | 0.0000318 | Paxs | 843.19 | Joback Method |
| dvisc | 0.0000231 | Paxs | 915.01 | Joback Method |
| dvisc | 0.0000176 | Paxs | 986.84 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U373652&Units=SI |

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/65-656-2/Di-Z-non-3-enyl-phthalate.pdf>

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