

Phthalic acid, cis-hex-3-enyl isobutyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C18H24O4/c1-4-5-6-9-12-21-17(19)15-10-7-8-11-16(15)18(20)22-13-14(2)3/h5 |
| InchiKey: | GBYDXBQWCQVNCV-WAYWQWQTSA-N |
| Formula: | C18H24O4 |
| SMILES: | CCC=CCCOC(=O)c1ccccc1C(=O)OCC(C)C |
| Mol. weight [g/mol]: | 304.38 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -186.60 | kJ/mol | Joback Method |
| hf | -567.45 | kJ/mol | Joback Method |
| hfus | 38.28 | kJ/mol | Joback Method |
| hvap | 76.48 | kJ/mol | Joback Method |
| log10ws | -4.92 | | Crippen Method |
| logp | 4.013 | | Crippen Method |
| mcvol | 251.300 | ml/mol | McGowan Method |
| pc | 1628.54 | kPa | Joback Method |
| rinsol | 2110.00 | | NIST Webbook |
| tb | 799.20 | K | Joback Method |
| tc | 1006.70 | K | Joback Method |
| tf | 455.80 | K | Joback Method |
| vc | 0.958 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 736.28 | J/molxK | 799.20 | Joback Method |
| cpg | 802.92 | J/molxK | 972.11 | Joback Method |
| cpg | 791.58 | J/molxK | 937.53 | Joback Method |
| cpg | 779.27 | J/molxK | 902.95 | Joback Method |
| cpg | 765.97 | J/molxK | 868.37 | Joback Method |
| cpg | 751.65 | J/molxK | 833.78 | Joback Method |
| cpg | 813.34 | J/molxK | 1006.70 | Joback Method |
| dvisc | 0.0000575 | Paxs | 799.20 | Joback Method |
| dvisc | 0.0000749 | Paxs | 741.97 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0001020 | Paxs | 684.73 | Joback Method |
| dvisc | 0.0001468 | Paxs | 627.50 | Joback Method |
| dvisc | 0.0002275 | Paxs | 570.27 | Joback Method |
| dvisc | 0.0003887 | Paxs | 513.03 | Joback Method |
| dvisc | 0.0007598 | Paxs | 455.80 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U360289&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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