

Phthalic acid, di(2,2-dimethylpent-3-yl) ester

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|-----------------------------|--|
| Inchi: | InChI=1S/C22H34O4/c1-9-17(21(3,4)5)25-19(23)15-13-11-12-14-16(15)20(24)26-18(10- |
| InchiKey: | OUAIKFCXUVPKPJ-UHFFFAOYSA-N |
| Formula: | C22H34O4 |
| SMILES: | CCC(OC(=O)c1ccccc1C(=O)OC(CC)C(C)(C)C)C(C)(C)C |
| Mol. weight [g/mol]: | 362.50 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -229.90 | kJ/mol | Joback Method |
| hf | -790.01 | kJ/mol | Joback Method |
| hfus | 30.09 | kJ/mol | Joback Method |
| hvap | 82.45 | kJ/mol | Joback Method |
| log10ws | -6.72 | | Crippen Method |
| logp | 5.650 | | Crippen Method |
| mvol | 311.960 | ml/mol | McGowan Method |
| pc | 1215.74 | kPa | Joback Method |
| rinpol | 1577.00 | | NIST Webbook |
| rinpol | 1577.00 | | NIST Webbook |
| tb | 879.66 | K | Joback Method |
| tc | 1094.58 | K | Joback Method |
| tf | 495.80 | K | Joback Method |
| vc | 1.173 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 999.41 | J/molxK | 879.66 | Joback Method |
| cpg | 1016.47 | J/molxK | 915.48 | Joback Method |
| cpg | 1032.26 | J/molxK | 951.30 | Joback Method |
| cpg | 1046.85 | J/molxK | 987.12 | Joback Method |
| cpg | 1060.31 | J/molxK | 1022.94 | Joback Method |
| cpg | 1072.71 | J/molxK | 1058.76 | Joback Method |
| cpg | 1084.14 | J/molxK | 1094.58 | Joback Method |
| dvisc | 0.0005260 | Paxs | 495.80 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0002264 | Paxs | 559.78 | Joback Method |
| dvisc | 0.0001158 | Paxs | 623.75 | Joback Method |
| dvisc | 0.0000671 | Paxs | 687.73 | Joback Method |
| dvisc | 0.0000427 | Paxs | 751.71 | Joback Method |
| dvisc | 0.0000291 | Paxs | 815.68 | Joback Method |
| dvisc | 0.0000210 | Paxs | 879.66 | 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=U415538&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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/96-079-9/Phthalic-acid-di-2-2-dimethylpent-3-yl-ester.pdf>

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