

Dimethylmalonic acid, ethyl 2-isopropoxyphenyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C16H22O5/c1-6-19-14(17)16(4,5)15(18)21-13-10-8-7-9-12(13)20-11(2)3/h7-11 |
| InchiKey: | QKPGUWLSJSQVEX-UHFFFAOYSA-N |
| Formula: | C16H22O5 |
| SMILES: | CCOC(=O)C(C)(C)C(=O)Oc1ccccc1OC(C)C |
| Mol. weight [g/mol]: | 294.34 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -385.82 | kJ/mol | Joback Method |
| hf | -784.36 | kJ/mol | Joback Method |
| hfus | 26.67 | kJ/mol | Joback Method |
| hvap | 73.19 | kJ/mol | Joback Method |
| log10ws | -3.57 | | Crippen Method |
| logp | 2.968 | | Crippen Method |
| mcvol | 233.290 | ml/mol | McGowan Method |
| pc | 1832.54 | kPa | Joback Method |
| rinpol | 1817.00 | | NIST Webbook |
| tb | 768.47 | K | Joback Method |
| tc | 980.68 | K | Joback Method |
| tf | 462.99 | K | Joback Method |
| vc | 0.873 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 678.78 | J/molxK | 768.47 | Joback Method |
| cpg | 694.04 | J/molxK | 803.84 | Joback Method |
| cpg | 708.17 | J/molxK | 839.21 | Joback Method |
| cpg | 721.20 | J/molxK | 874.57 | Joback Method |
| cpg | 733.14 | J/molxK | 909.94 | Joback Method |
| cpg | 744.02 | J/molxK | 945.31 | Joback Method |
| cpg | 753.83 | J/molxK | 980.68 | Joback Method |
| dvisc | 0.0006638 | Paxs | 462.99 | Joback Method |
| dvisc | 0.0003542 | Paxs | 513.90 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0002116 | Paxs | 564.82 | Joback Method |
| dvisc | 0.0001377 | Paxs | 615.73 | Joback Method |
| dvisc | 0.0000956 | Paxs | 666.64 | Joback Method |
| dvisc | 0.0000700 | Paxs | 717.56 | Joback Method |
| dvisc | 0.0000534 | Paxs | 768.47 | 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=U361849&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 |

Latest version available from:

<https://www.chemeo.com/cid/69-195-0/Dimethylmalonic-acid-ethyl-2-isopropoxyphenyl-ester.pdf>

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