

Diethylmalonic acid, di(4-methoxyphenyl) ester

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|----------------------|---|
| Inchi: | InChI=1S/C21H24O6/c1-5-21(6-2,19(22)26-17-11-7-15(24-3)8-12-17)20(23)27-18-13-9-1 |
| InchiKey: | ZAJZWPXKATFEC-UHFFFAOYSA-N |
| Formula: | C21H24O6 |
| SMILES: | CCC(CC)(C(=O)Oc1ccc(OC)cc1)C(=O)Oc1ccc(OC)cc1 |
| Mol. weight [g/mol]: | 372.41 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -343.50 | kJ/mol | Joback Method |
| hf | -789.44 | kJ/mol | Joback Method |
| hfus | 37.99 | kJ/mol | Joback Method |
| hvap | 90.05 | kJ/mol | Joback Method |
| log10ws | -5.00 | | Crippen Method |
| logp | 4.021 | | Crippen Method |
| mvol | 285.850 | ml/mol | McGowan Method |
| pc | 1568.47 | kPa | Joback Method |
| rinpol | 2776.00 | | NIST Webbook |
| rinpol | 2776.00 | | NIST Webbook |
| tb | 937.39 | K | Joback Method |
| tc | 1166.72 | K | Joback Method |
| tf | 595.51 | K | Joback Method |
| vc | 1.069 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 893.05 | J/molxK | 937.39 | Joback Method |
| cpg | 905.78 | J/molxK | 975.61 | Joback Method |
| cpg | 917.00 | J/molxK | 1013.83 | Joback Method |
| cpg | 926.72 | J/molxK | 1052.05 | Joback Method |
| cpg | 934.98 | J/molxK | 1090.27 | Joback Method |
| cpg | 941.79 | J/molxK | 1128.50 | Joback Method |
| cpg | 947.19 | J/molxK | 1166.72 | Joback Method |
| dvisc | 0.0001790 | Paxs | 595.51 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0001075 | Paxs | 652.49 | Joback Method |
| dvisc | 0.0000701 | Paxs | 709.47 | Joback Method |
| dvisc | 0.0000487 | Paxs | 766.45 | Joback Method |
| dvisc | 0.0000356 | Paxs | 823.43 | Joback Method |
| dvisc | 0.0000271 | Paxs | 880.41 | Joback Method |
| dvisc | 0.0000213 | Paxs | 937.39 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U369846&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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