

Dimethylmalonic acid, heptadecyl 2,4,6-trichlorophenyl ester

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|----------------------|---|
| Inchi: | InChI=1S/C28H43Cl3O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-34-26(32)28(2,3 |
| InchiKey: | YJAVNYKDKBGGRS-UHFFFAOYSA-N |
| Formula: | C28H43Cl3O4 |
| SMILES: | CCCCCCCCCCCCCCCCOC(=O)C(C)(C)C(=O)Oc1c(Cl)cc(Cl)cc1Cl |
| Mol. weight [g/mol]: | 550.00 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -232.39 | kJ/mol | Joback Method |
| hf | -964.70 | kJ/mol | Joback Method |
| hfus | 71.90 | kJ/mol | Joback Method |
| hvap | 112.35 | kJ/mol | Joback Method |
| log10ws | -10.83 | | Crippen Method |
| logp | 9.993 | | Crippen Method |
| mcvol | 433.220 | ml/mol | McGowan Method |
| pc | 763.10 | kPa | Joback Method |
| rinsol | 3500.00 | | NIST Webbook |
| tb | 1143.30 | K | Joback Method |
| tc | 1411.80 | K | Joback Method |
| tf | 705.80 | K | Joback Method |
| vc | 1.679 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 1437.64 | J/molxK | 1143.30 | Joback Method |
| cpg | 1452.28 | J/molxK | 1188.05 | Joback Method |
| cpg | 1465.18 | J/molxK | 1232.80 | Joback Method |
| cpg | 1476.48 | J/molxK | 1277.55 | Joback Method |
| cpg | 1486.31 | J/molxK | 1322.30 | Joback Method |
| cpg | 1494.80 | J/molxK | 1367.05 | Joback Method |
| cpg | 1502.07 | J/molxK | 1411.80 | Joback Method |
| dvisc | 0.0000765 | Paxs | 705.80 | Joback Method |
| dvisc | 0.0000431 | Paxs | 778.72 | Joback Method |

| | | | | |
|-------|-----------|------|---------|---------------|
| dvisc | 0.0000268 | Paxs | 851.63 | Joback Method |
| dvisc | 0.0000180 | Paxs | 924.55 | Joback Method |
| dvisc | 0.0000128 | Paxs | 997.47 | Joback Method |
| dvisc | 0.0000095 | Paxs | 1070.38 | Joback Method |
| dvisc | 0.0000074 | Paxs | 1143.30 | 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=U363659&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 |

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<https://www.chemeo.com/cid/26-379-3/Dimethylmalonic-acid-heptadecyl-2-4-6-trichlorophenyl-ester.pdf>

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