

Phthalic acid, ethyl 2,3,5-trichlorophenyl ester

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|-----------------------------|---|
| Inchi: | InChI=1S/C16H11Cl3O4/c1-2-22-15(20)10-5-3-4-6-11(10)16(21)23-13-8-9(17)7-12(18)14 |
| InchiKey: | UYZGHHODDHTIML-UHFFFAOYSA-N |
| Formula: | C16H11Cl3O4 |
| SMILES: | CCOC(=O)c1ccccc1C(=O)Oc1cc(Cl)cc(Cl)c1Cl |
| Mol. weight [g/mol]: | 373.62 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -233.49 | kJ/mol | Joback Method |
| hf | -483.21 | kJ/mol | Joback Method |
| hfus | 41.89 | kJ/mol | Joback Method |
| hvap | 89.88 | kJ/mol | Joback Method |
| log10ws | -6.27 | | Crippen Method |
| logp | 5.043 | | Crippen Method |
| mcvol | 240.380 | ml/mol | McGowan Method |
| pc | 2121.68 | kPa | Joback Method |
| rinpol | 2556.00 | | NIST Webbook |
| rinpol | 2556.00 | | NIST Webbook |
| tb | 903.63 | K | Joback Method |
| tc | 1148.58 | K | Joback Method |
| tf | 607.08 | K | Joback Method |
| vc | 0.910 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 615.69 | J/molxK | 903.63 | Joback Method |
| cpg | 649.73 | J/molxK | 1107.75 | Joback Method |
| cpg | 645.26 | J/molxK | 1066.93 | Joback Method |
| cpg | 639.63 | J/molxK | 1026.10 | Joback Method |
| cpg | 632.83 | J/molxK | 985.28 | Joback Method |
| cpg | 624.86 | J/molxK | 944.45 | Joback Method |
| cpg | 653.06 | J/molxK | 1148.58 | Joback Method |
| dvisc | 0.0000671 | Paxs | 903.63 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0000810 | Paxs | 854.20 | Joback Method |
| dvisc | 0.0000999 | Paxs | 804.78 | Joback Method |
| dvisc | 0.0001268 | Paxs | 755.36 | Joback Method |
| dvisc | 0.0001664 | Paxs | 705.93 | Joback Method |
| dvisc | 0.0002274 | Paxs | 656.50 | Joback Method |
| dvisc | 0.0003270 | Paxs | 607.08 | Joback Method |

Sources

| | |
|------------------------|---|
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U357054&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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