

2,4-Ditert-butyl-6-chlorophenyl chloroacetate

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|-----------------------------|---|
| Inchi: | InChI=1S/C16H22Cl2O2/c1-15(2,3)10-7-11(16(4,5)6)14(12(18)8-10)20-13(19)9-17/h7-8H |
| InchiKey: | FNJSIWWSGGXZNM-UHFFFAOYSA-N |
| Formula: | C16H22Cl2O2 |
| SMILES: | CC(C)(C)c1cc(Cl)c(OC(=O)CC)c(C(C)(C)C)c1 |
| Mol. weight [g/mol]: | 317.25 |
| CAS: | 116434-87-8 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|---------|----------------|
| gf | -84.74 | kJ/mol | Joback Method |
| hf | -465.23 | kJ/mol | Joback Method |
| hfus | 26.42 | kJ/mol | Joback Method |
| hvap | 70.81 | kJ/mol | Joback Method |
| log10ws | -5.25 | | Crippen Method |
| logp | 5.079 | | Crippen Method |
| mcvol | 244.460 | ml/mol | McGowan Method |
| pc | 1655.15 | kPa | Joback Method |
| tb | 751.79 | K | Joback Method |
| tc | 976.27 | K | Joback Method |
| tf | 470.90 | K | Joback Method |
| vc | 0.923 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 660.46 | J/molxK | 751.79 | Joback Method |
| cpg | 675.85 | J/molxK | 789.20 | Joback Method |
| cpg | 690.14 | J/molxK | 826.62 | Joback Method |
| cpg | 703.41 | J/molxK | 864.03 | Joback Method |
| cpg | 715.72 | J/molxK | 901.44 | Joback Method |
| cpg | 727.16 | J/molxK | 938.86 | Joback Method |
| cpg | 737.78 | J/molxK | 976.27 | Joback Method |
| dvisc | 0.0006575 | Paxs | 470.90 | Joback Method |
| dvisc | 0.0003776 | Paxs | 517.71 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0002377 | Paxs | 564.53 | Joback Method |
| dvisc | 0.0001607 | Paxs | 611.35 | Joback Method |
| dvisc | 0.0001148 | Paxs | 658.16 | Joback Method |
| dvisc | 0.0000858 | Paxs | 704.97 | Joback Method |
| dvisc | 0.0000665 | Paxs | 751.79 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=C116434878&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

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 |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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