

7-chlorooctyl dichloroacetate

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|-----------------------------|---|
| Other names: | 1-Octanol, 7-chloro, dichloroacetate |
| Inchi: | InChI=1S/C10H17Cl3O2/c1-8(11)6-4-2-3-5-7-15-10(14)9(12)13/h8-9H,2-7H2,1H3 |
| InchiKey: | WMRINDHNJPJHEX-UHFFFAOYSA-N |
| Formula: | C10H17Cl3O2 |
| SMILES: | CC(Cl)CCCCCOC(=O)C(Cl)Cl |
| Mol. weight [g/mol]: | 275.60 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -241.27 | kJ/mol | Joback Method |
| hf | -552.31 | kJ/mol | Joback Method |
| hfus | 29.99 | kJ/mol | Joback Method |
| hvap | 59.39 | kJ/mol | Joback Method |
| log10ws | -4.05 | | Crippen Method |
| logp | 3.911 | | Crippen Method |
| mcvol | 195.920 | ml/mol | McGowan Method |
| pc | 2016.32 | kPa | Joback Method |
| rinpol | 1682.00 | | NIST Webbook |
| rinpol | 1689.00 | | NIST Webbook |
| rinpol | 1706.00 | | NIST Webbook |
| rinpol | 1699.00 | | NIST Webbook |
| rinpol | 1682.00 | | NIST Webbook |
| ripol | 2384.00 | | NIST Webbook |
| ripol | 2416.00 | | NIST Webbook |
| ripol | 2384.00 | | NIST Webbook |
| ripol | 2404.00 | | NIST Webbook |
| tb | 615.90 | K | Joback Method |
| tc | 809.16 | K | Joback Method |
| tf | 334.38 | K | Joback Method |
| vc | 0.754 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-------|------|-----------------|--------|
|---------------|-------|------|-----------------|--------|

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|-------|-----------|---------|--------|---------------|
| cpg | 455.66 | J/molxK | 615.90 | Joback Method |
| cpg | 468.53 | J/molxK | 648.11 | Joback Method |
| cpg | 480.73 | J/molxK | 680.32 | Joback Method |
| cpg | 492.28 | J/molxK | 712.53 | Joback Method |
| cpg | 503.19 | J/molxK | 744.74 | Joback Method |
| cpg | 513.48 | J/molxK | 776.95 | Joback Method |
| cpg | 523.15 | J/molxK | 809.16 | Joback Method |
| dvisc | 0.0033761 | Paxs | 334.38 | Joback Method |
| dvisc | 0.0014970 | Paxs | 381.30 | Joback Method |
| dvisc | 0.0007933 | Paxs | 428.22 | Joback Method |
| dvisc | 0.0004765 | Paxs | 475.14 | Joback Method |
| dvisc | 0.0003137 | Paxs | 522.06 | Joback Method |
| dvisc | 0.0002213 | Paxs | 568.98 | Joback Method |
| dvisc | 0.0001646 | Paxs | 615.90 | Joback Method |

Sources

| | |
|------------------------|---|
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=R112273&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307I |
| 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 |
| mccvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

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