

# 4-chlorooctyl chloroacetate

|                             |                                                                      |
|-----------------------------|----------------------------------------------------------------------|
| <b>Other names:</b>         | 1-Octanol, 4-chloro, chloroacetate                                   |
| <b>Inchi:</b>               | InChI=1S/C10H18Cl2O2/c1-2-3-5-9(12)6-4-7-14-10(13)8-11/h9H,2-8H2,1H3 |
| <b>InchiKey:</b>            | KYSGKJNVTZDICM-UHFFFAOYSA-N                                          |
| <b>Formula:</b>             | C10H18Cl2O2                                                          |
| <b>SMILES:</b>              | CCCCC(Cl)CCCOC(=O)CCl                                                |
| <b>Mol. weight [g/mol]:</b> | 241.16                                                               |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -226.90 | kJ/mol  | Joback Method  |
| hf            | -531.29 | kJ/mol  | Joback Method  |
| hfus          | 29.31   | kJ/mol  | Joback Method  |
| hvap          | 55.39   | kJ/mol  | Joback Method  |
| log10ws       | -3.29   |         | Crippen Method |
| logp          | 3.346   |         | Crippen Method |
| mcvol         | 183.680 | ml/mol  | McGowan Method |
| pc            | 2069.88 | kPa     | Joback Method  |
| rinpol        | 1569.00 |         | NIST Webbook   |
| rinpol        | 1570.00 |         | NIST Webbook   |
| rinpol        | 1572.00 |         | NIST Webbook   |
| rinpol        | 1575.00 |         | NIST Webbook   |
| ripol         | 2278.00 |         | NIST Webbook   |
| ripol         | 2270.00 |         | NIST Webbook   |
| ripol         | 2258.00 |         | NIST Webbook   |
| tb            | 578.91  | K       | Joback Method  |
| tc            | 764.42  | K       | Joback Method  |
| tf            | 319.46  | K       | Joback Method  |
| vc            | 0.712   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 427.73 | J/molxK | 578.91          | Joback Method |
| cpg           | 441.05 | J/molxK | 609.83          | Joback Method |

|       |           |         |        |               |
|-------|-----------|---------|--------|---------------|
| cpg   | 453.75    | J/molxK | 640.75 | Joback Method |
| cpg   | 465.85    | J/molxK | 671.67 | Joback Method |
| cpg   | 477.36    | J/molxK | 702.58 | Joback Method |
| cpg   | 488.28    | J/molxK | 733.50 | Joback Method |
| cpg   | 498.63    | J/molxK | 764.42 | Joback Method |
| dvisc | 0.0032066 | Paxs    | 319.46 | Joback Method |
| dvisc | 0.0015197 | Paxs    | 362.70 | Joback Method |
| dvisc | 0.0008444 | Paxs    | 405.94 | Joback Method |
| dvisc | 0.0005254 | Paxs    | 449.19 | Joback Method |
| dvisc | 0.0003553 | Paxs    | 492.43 | Joback Method |
| dvisc | 0.0002560 | Paxs    | 535.67 | Joback Method |
| dvisc | 0.0001937 | Paxs    | 578.91 | Joback Method |

## Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |
| <b>Joback Method:</b>  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                     |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                     |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R112179&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R112179&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                 |

## Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>dvisc:</b>   | Dynamic viscosity                               |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>rinpol:</b>  | Non-polar retention indices                     |
| <b>ripol:</b>   | Polar retention indices                         |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |

**vc:** Critical Volume

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