

# 1-chlorobutyl chloroacetate

|                      |                                                         |
|----------------------|---------------------------------------------------------|
| Other names:         | 1-Butanol, 1-chloro, chloroacetate                      |
| Inchi:               | InChI=1S/C6H10Cl2O2/c1-2-3-5(8)10-6(9)4-7/h5H,2-4H2,1H3 |
| InchiKey:            | KXHRHLNXCBLCOB-UHFFFAOYSA-N                             |
| Formula:             | C6H10Cl2O2                                              |
| SMILES:              | CCCC(Cl)OC(=O)CCI                                       |
| Mol. weight [g/mol]: | 185.05                                                  |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -260.58 | kJ/mol  | Joback Method  |
| hf            | -448.73 | kJ/mol  | Joback Method  |
| hfus          | 18.95   | kJ/mol  | Joback Method  |
| hvap          | 46.49   | kJ/mol  | Joback Method  |
| log10ws       | -2.11   |         | Crippen Method |
| logp          | 2.133   |         | Crippen Method |
| mcvol         | 127.320 | ml/mol  | McGowan Method |
| pc            | 3038.96 | kPa     | Joback Method  |
| rinpol        | 1106.00 |         | NIST Webbook   |
| rinpol        | 1113.00 |         | NIST Webbook   |
| rinpol        | 1113.00 |         | NIST Webbook   |
| rinpol        | 1103.00 |         | NIST Webbook   |
| rinpol        | 1102.00 |         | NIST Webbook   |
| ripol         | 1674.00 |         | NIST Webbook   |
| ripol         | 1701.00 |         | NIST Webbook   |
| ripol         | 1701.00 |         | NIST Webbook   |
| ripol         | 1701.00 |         | NIST Webbook   |
| ripol         | 1709.00 |         | NIST Webbook   |
| ripol         | 1674.00 |         | NIST Webbook   |
| ripol         | 1709.00 |         | NIST Webbook   |
| ripol         | 1669.00 |         | NIST Webbook   |
| tb            | 487.39  | K       | Joback Method  |
| tc            | 681.93  | K       | Joback Method  |
| tf            | 274.38  | K       | Joback Method  |
| vc            | 0.487   | m3/kmol | Joback Method  |

# Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 249.20    | J/mol×K | 487.39          | Joback Method |
| cpg           | 258.74    | J/mol×K | 519.81          | Joback Method |
| cpg           | 267.87    | J/mol×K | 552.24          | Joback Method |
| cpg           | 276.59    | J/mol×K | 584.66          | Joback Method |
| cpg           | 284.91    | J/mol×K | 617.08          | Joback Method |
| cpg           | 292.82    | J/mol×K | 649.50          | Joback Method |
| cpg           | 300.33    | J/mol×K | 681.93          | Joback Method |
| dvisc         | 0.0038678 | Pa×s    | 274.38          | Joback Method |
| dvisc         | 0.0019631 | Pa×s    | 309.88          | Joback Method |
| dvisc         | 0.0011455 | Pa×s    | 345.38          | Joback Method |
| dvisc         | 0.0007390 | Pa×s    | 380.88          | Joback Method |
| dvisc         | 0.0005137 | Pa×s    | 416.39          | Joback Method |
| dvisc         | 0.0003781 | Pa×s    | 451.89          | Joback Method |
| dvisc         | 0.0002910 | Pa×s    | 487.39          | Joback Method |

## Sources

|                 |                                                                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Crippen Method: | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                 |
| Crippen Method: | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |
| Joback Method:  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                     |
| McGowan Method: | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                     |
| NIST Webbook:   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R111512&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R111512&amp;Units=SI</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    |
| <b>vc:</b>     | Critical Volume                  |

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