

# 3,5-Dichlorobenzoyl chloride

|                      |                                                    |
|----------------------|----------------------------------------------------|
| Other names:         | Benzoyl chloride, 3,5-dichloro-                    |
| Inchi:               | InChI=1S/C7H3Cl3O/c8-5-1-4(7(10)11)2-6(9)3-5/h1-3H |
| InchiKey:            | GGHLXLVPNZMBQR-UHFFFAOYSA-N                        |
| Formula:             | C7H3Cl3O                                           |
| SMILES:              | O=C(Cl)c1cc(Cl)cc(Cl)c1                            |
| Mol. weight [g/mol]: | 209.46                                             |
| CAS:                 | 2905-62-6                                          |

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -63.50  | kJ/mol  | Joback Method  |
| hf            | -134.02 | kJ/mol  | Joback Method  |
| hfus          | 21.34   | kJ/mol  | Joback Method  |
| hvap          | 54.68   | kJ/mol  | Joback Method  |
| log10ws       | -3.73   |         | Crippen Method |
| logp          | 3.372   |         | Crippen Method |
| mcvol         | 124.020 | ml/mol  | McGowan Method |
| pc            | 3731.66 | kPa     | Joback Method  |
| tb            | 562.36  | K       | Joback Method  |
| tc            | 806.32  | K       | Joback Method  |
| tf            | 359.80  | K       | Joback Method  |
| vc            | 0.472   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 215.68    | J/mol×K | 562.36          | Joback Method |
| cpg           | 247.61    | J/mol×K | 765.66          | Joback Method |
| cpg           | 242.29    | J/mol×K | 725.00          | Joback Method |
| cpg           | 236.47    | J/mol×K | 684.34          | Joback Method |
| cpg           | 230.11    | J/mol×K | 643.68          | Joback Method |
| cpg           | 223.19    | J/mol×K | 603.02          | Joback Method |
| cpg           | 252.44    | J/mol×K | 806.32          | Joback Method |
| dvisc         | 0.0003139 | Pa×s    | 562.36          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0003790 | Pa×s | 528.60 | Joback Method |
| dvisc | 0.0004696 | Pa×s | 494.84 | Joback Method |
| dvisc | 0.0006004 | Pa×s | 461.08 | Joback Method |
| dvisc | 0.0007980 | Pa×s | 427.32 | Joback Method |
| dvisc | 0.0011138 | Pa×s | 393.56 | Joback Method |
| dvisc | 0.0016548 | Pa×s | 359.80 | Joback Method |

## Sources

|                        |                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <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=C2905626&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2905626&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>                                   |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>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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