

3-Chlorobenzoic acid, 2-methylbutyl ester

| | |
|-----------------------------|---|
| Inchi: | InChI=1S/C12H15ClO2/c1-3-9(2)8-15-12(14)10-5-4-6-11(13)7-10/h4-7,9H,3,8H2,1-2H3 |
| InchiKey: | HOQMVZSERA0HEF-UHFFFAOYSA-N |
| Formula: | C12H15ClO2 |
| SMILES: | CCC(C)COC(=O)c1cccc(Cl)c1 |
| Mol. weight [g/mol]: | 226.70 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -95.35 | kJ/mol | Joback Method |
| hf | -331.77 | kJ/mol | Joback Method |
| hfus | 23.95 | kJ/mol | Joback Method |
| hvap | 58.40 | kJ/mol | Joback Method |
| log10ws | -3.83 | | Crippen Method |
| logp | 3.543 | | Crippen Method |
| mvol | 175.860 | ml/mol | McGowan Method |
| pc | 2410.00 | kPa | Joback Method |
| rinpol | 1617.00 | | NIST Webbook |
| rinpol | 1617.00 | | NIST Webbook |
| tb | 618.90 | K | Joback Method |
| tc | 834.03 | K | Joback Method |
| tf | 351.02 | K | Joback Method |
| vc | 0.666 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 421.78 | J/molxK | 618.90 | Joback Method |
| cpg | 485.09 | J/molxK | 798.18 | Joback Method |
| cpg | 474.07 | J/molxK | 762.32 | Joback Method |
| cpg | 462.25 | J/molxK | 726.47 | Joback Method |
| cpg | 449.61 | J/molxK | 690.61 | Joback Method |
| cpg | 436.13 | J/molxK | 654.76 | Joback Method |
| cpg | 495.33 | J/molxK | 834.03 | Joback Method |
| dvisc | 0.0001617 | Paxs | 618.90 | Joback Method |

| | | | | |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0002079 | Paxs | 574.25 | Joback Method |
| dvisc | 0.0002788 | Paxs | 529.61 | Joback Method |
| dvisc | 0.0003947 | Paxs | 484.96 | Joback Method |
| dvisc | 0.0005996 | Paxs | 440.31 | Joback Method |
| dvisc | 0.0010010 | Paxs | 395.67 | Joback Method |
| dvisc | 0.0019039 | Paxs | 351.02 | Joback Method |

Sources

| | |
|------------------------|---|
| 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 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=U357394&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

Legend

| | |
|----------------------------|---|
| cp_g: | 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 |
| h_{vap}: | Enthalpy of vaporization at standard conditions |
| log₁₀ws: | Log ₁₀ of Water solubility in mol/l |
| log_p: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| rinpol: | Non-polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

Latest version available from:

<https://www.chemeo.com/cid/64-714-8/3-Chlorobenzoic-acid-2-methylbutyl-ester.pdf>

Generated by Cheméo on 2025-04-21 14:48:43.592151394 +0000 UTC m=+555969.092595619.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.