

3,3-Dimethylbutan-2-yl 3-chlorobenzoate

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|-----------------------------|--|
| Inchi: | InChI=1S/C13H17ClO2/c1-9(13(2,3)4)16-12(15)10-6-5-7-11(14)8-10/h5-9H,1-4H3 |
| InchiKey: | KUBCEMWGSNRTPX-UHFFFAOYSA-N |
| Formula: | C13H17ClO2 |
| SMILES: | CC(OC(=O)c1cccc(Cl)c1)C(C)(C)C |
| Mol. weight [g/mol]: | 240.73 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -84.09 | kJ/mol | Joback Method |
| hf | -361.16 | kJ/mol | Joback Method |
| hfus | 19.13 | kJ/mol | Joback Method |
| hvap | 59.33 | kJ/mol | Joback Method |
| log10ws | -4.36 | | Crippen Method |
| logp | 3.931 | | Crippen Method |
| mcvol | 189.950 | ml/mol | McGowan Method |
| pc | 2237.64 | kPa | Joback Method |
| rinsol | 1598.00 | | NIST Webbook |
| tb | 638.55 | K | Joback Method |
| tc | 862.36 | K | Joback Method |
| tf | 364.71 | K | Joback Method |
| vc | 0.712 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-----------|---------|-----------------|---------------|
| cpg | 474.98 | J/molxK | 638.55 | Joback Method |
| cpg | 542.75 | J/molxK | 825.06 | Joback Method |
| cpg | 531.15 | J/molxK | 787.76 | Joback Method |
| cpg | 518.62 | J/molxK | 750.46 | Joback Method |
| cpg | 505.12 | J/molxK | 713.15 | Joback Method |
| cpg | 490.59 | J/molxK | 675.85 | Joback Method |
| cpg | 553.47 | J/molxK | 862.36 | Joback Method |
| dvisc | 0.0001261 | Paxs | 638.55 | Joback Method |
| dvisc | 0.0001671 | Paxs | 592.91 | Joback Method |

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|-------|-----------|------|--------|---------------|
| dvisc | 0.0002321 | Paxs | 547.27 | Joback Method |
| dvisc | 0.0003422 | Paxs | 501.63 | Joback Method |
| dvisc | 0.0005452 | Paxs | 455.99 | Joback Method |
| dvisc | 0.0009635 | Paxs | 410.35 | Joback Method |
| dvisc | 0.0019636 | Paxs | 364.71 | Joback Method |

Sources

| | |
|------------------------|---|
| 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=U373574&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| Crippen Method: | https://www.cheméo.com/doc/models/crippen_log10ws |

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 |
| 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 |

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