# Cyclobutanecarboxylic acid, 3,4-dichlorophenyl ester

**Inchi:** InChI=1S/C11H10Cl2O2/c12-9-5-4-8(6-10(9)13)15-11(14)7-2-1-3-7/h4-7H,1-3H2
**InchiKey:** APPODQFYNHYRBW-UHFFFAOYSA-N
**Formula:** C11H10Cl2O2
**SMILES:** O=C(Oc1ccc(Cl)c(Cl)c1)C1CCC1
**Mol. weight [g/mol]:** 245.10

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -74.24 | kJ/mol | Joback Method |
| hf | -266.42 | kJ/mol | Joback Method |
| hfus | 24.73 | kJ/mol | Joback Method |
| hvap | 61.69 | kJ/mol | Joback Method |
| log10ws | -4.06 | | Crippen Method |
| logp | 3.699 | | Crippen Method |
| mcvol | 163.150 | ml/mol | McGowan Method |
| pc | 2934.52 | kPa | Joback Method |
| rinpol | 1738.00 | | NIST Webbook |
| rinpol | 1738.00 | | NIST Webbook |
| tb | 649.88 | K | Joback Method |
| tc | 891.96 | K | Joback Method |
| tf | 411.61 | K | Joback Method |
| vc | 0.615 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 382.81 | J/mol×K | 649.88 | Joback Method |
| cpg | 439.53 | J/mol×K | 851.61 | Joback Method |
| cpg | 430.02 | J/mol×K | 811.27 | Joback Method |
| cpg | 419.64 | J/mol×K | 770.92 | Joback Method |
| cpg | 408.34 | J/mol×K | 730.57 | Joback Method |
| cpg | 396.08 | J/mol×K | 690.23 | Joback Method |
| cpg | 448.22 | J/mol×K | 891.96 | Joback Method |
| dvisc | 0.0003410 | Pa×s | 649.88 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0004037 | Pa×s | 610.17 | Joback Method |
| dvisc | 0.0004893 | Pa×s | 570.46 | Joback Method |
| dvisc | 0.0006103 | Pa×s | 530.75 | Joback Method |
| dvisc | 0.0007891 | Pa×s | 491.03 | Joback Method |
| dvisc | 0.0010673 | Pa×s | 451.32 | Joback Method |
| dvisc | 0.0015303 | Pa×s | 411.61 | Joback Method |

# Sources

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=U307441&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**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

# 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