# Carbonic acid, 2-methoxyethyl 3,4-dichlorophenyl ester

**Inchi:** InChI=1S/C10H10Cl2O4/c1-14-4-5-15-10(13)16-7-2-3-8(11)9(12)6-7/h2-3,6H,4-5H2,1H3

**InchiKey:** NFKKCZSBYDIYRC-UHFFFAOYSA-N

**Formula:** C10H10Cl2O4

**SMILES:** COCCOC(=O)Oc1ccc(Cl)c(Cl)c1

**Mol. weight [g/mol]:** 265.09

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -341.31 | kJ/mol | Joback Method |
| hf | -576.86 | kJ/mol | Joback Method |
| hfus | 28.48 | kJ/mol | Joback Method |
| hvap | 64.20 | kJ/mol | Joback Method |
| log10ws | -3.14 | | Crippen Method |
| logp | 3.155 | | Crippen Method |
| mcvol | 171.660 | ml/mol | McGowan Method |
| pc | 2659.77 | kPa | Joback Method |
| rinpol | 1819.00 | | NIST Webbook |
| tb | 660.83 | K | Joback Method |
| tc | 878.25 | K | Joback Method |
| tf | 430.38 | K | Joback Method |
| vc | 0.645 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 395.62 | J/mol×K | 660.83 | Joback Method |
| cpg | 406.78 | J/mol×K | 697.07 | Joback Method |
| cpg | 417.26 | J/mol×K | 733.30 | Joback Method |
| cpg | 427.05 | J/mol×K | 769.54 | Joback Method |
| cpg | 436.12 | J/mol×K | 805.77 | Joback Method |
| cpg | 444.46 | J/mol×K | 842.01 | Joback Method |
| cpg | 452.04 | J/mol×K | 878.25 | Joback Method |
| dvisc | 0.0006912 | Pa×s | 430.38 | Joback Method |
| dvisc | 0.0004601 | Pa×s | 468.79 | Joback Method |

| | | | | |
|---|---|---|---|---|
| dvisc | 0.0003257 | Pa×s | 507.20 | Joback Method |
| dvisc | 0.0002421 | Pa×s | 545.61 | Joback Method |
| dvisc | 0.0001871 | Pa×s | 584.01 | Joback Method |
| dvisc | 0.0001492 | Pa×s | 622.42 | Joback Method |
| dvisc | 0.0001222 | Pa×s | 660.83 | Joback Method |

# Sources

**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

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=U357875&Units=SI

# 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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