# 1,3-Dichloroisopropyl propionate

**Inchi:** InChI=1S/C6H10Cl2O2/c1-3-5(9)10-6(2,8)4-7/h3-4H2,1-2H3
**InchiKey:** COGMNUVPPFECPW-UHFFFAOYSA-N
**Formula:** C6H10Cl2O2
**SMILES:** CCC(=O)OC(C)(Cl)CCl
**Mol. weight [g/mol]:** 185.05

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -255.30 | kJ/mol | Joback Method |
| hf | -452.20 | kJ/mol | Joback Method |
| hfus | 15.06 | kJ/mol | Joback Method |
| hvap | 45.58 | kJ/mol | Joback Method |
| log10ws | -2.11 | | Crippen Method |
| logp | 2.133 | | Crippen Method |
| mcvol | 127.320 | ml/mol | McGowan Method |
| pc | 3076.16 | kPa | Joback Method |
| rinpol | 1114.00 | | NIST Webbook |
| tb | 484.60 | K | Joback Method |
| tc | 687.13 | K | Joback Method |
| tf | 291.80 | K | Joback Method |
| vc | 0.482 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 252.33 | J/mol×K | 484.60 | Joback Method |
| cpg | 262.47 | J/mol×K | 518.36 | Joback Method |
| cpg | 272.04 | J/mol×K | 552.11 | Joback Method |
| cpg | 281.06 | J/mol×K | 585.87 | Joback Method |
| cpg | 289.55 | J/mol×K | 619.62 | Joback Method |
| cpg | 297.52 | J/mol×K | 653.38 | Joback Method |
| cpg | 305.00 | J/mol×K | 687.13 | Joback Method |
| dvisc | 0.0036475 | Pa×s | 291.80 | Joback Method |
| dvisc | 0.0019601 | Pa×s | 323.93 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0011783 | Pa×s | 356.07 | Joback Method |
| dvisc | 0.0007706 | Pa×s | 388.20 | Joback Method |
| dvisc | 0.0005377 | Pa×s | 420.33 | Joback Method |
| dvisc | 0.0003949 | Pa×s | 452.47 | Joback Method |
| dvisc | 0.0003022 | Pa×s | 484.60 | Joback Method |

# Sources

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=R150304&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