# Succinic acid, monochloride 2-methylpent-3-yl ester

**Inchi:** InChI=1S/C10H17ClO3/c1-4-8(7(2)3)14-10(13)6-5-9(11)12/h7-8H,4-6H2,1-3H3
**InchiKey:** LPYUZXWODZHGIK-UHFFFAOYSA-N
**Formula:** C10H17ClO3
**SMILES:** CCC(OC(=O)CCC(=O)Cl)C(C)C
**Mol. weight [g/mol]:** 220.69

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -346.33 | kJ/mol | Joback Method |
| hf | -633.41 | kJ/mol | Joback Method |
| hfus | 23.19 | kJ/mol | Joback Method |
| hvap | 57.36 | kJ/mol | Joback Method |
| log10ws | -2.67 | | Crippen Method |
| logp | 2.510 | | Crippen Method |
| mcvol | 173.010 | ml/mol | McGowan Method |
| pc | 2289.32 | kPa | Joback Method |
| rinpol | 1367.00 | | NIST Webbook |
| rinpol | 1367.00 | | NIST Webbook |
| tb | 594.91 | K | Joback Method |
| tc | 787.34 | K | Joback Method |
| tf | 324.47 | K | Joback Method |
| vc | 0.662 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 419.12 | J/mol×K | 594.91 | Joback Method |
| cpg | 479.10 | J/mol×K | 755.26 | Joback Method |
| cpg | 468.38 | J/mol×K | 723.19 | Joback Method |
| cpg | 457.03 | J/mol×K | 691.12 | Joback Method |
| cpg | 445.04 | J/mol×K | 659.05 | Joback Method |
| cpg | 432.41 | J/mol×K | 626.98 | Joback Method |
| cpg | 489.20 | J/mol×K | 787.34 | Joback Method |
| dvisc | 0.0001969 | Pa×s | 594.91 | Joback Method |

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|---|---|---|---|---|
| dvisc | 0.0002635 | Pa×s | 549.84 | Joback Method |
| dvisc | 0.0003714 | Pa×s | 504.76 | Joback Method |
| dvisc | 0.0005600 | Pa×s | 459.69 | Joback Method |
| dvisc | 0.0009231 | Pa×s | 414.62 | Joback Method |
| dvisc | 0.0017189 | Pa×s | 369.54 | Joback Method |
| dvisc | 0.0038044 | Pa×s | 324.47 | Joback Method |

# Sources

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|---|---|
| **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=U349401&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |