# 1-Nonanol, 5-chloro, acetate

**Other names:** 5-Chlorononyl acetate
**Inchi:** InChI=1S/C11H21ClO2/c1-3-4-7-11(12)8-5-6-9-14-10(2)13/h11H,3-9H2,1-2H3
**InchiKey:** SASQQBHDGTUWFZ-UHFFFAOYSA-N
**Formula:** C11H21ClO2
**SMILES:** CCCCC(Cl)CCCCOC(C)=O
**Mol. weight [g/mol]:** 220.74

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -206.55 | kJ/mol | Joback Method |
| hf | -536.19 | kJ/mol | Joback Method |
| hfus | 27.71 | kJ/mol | Joback Method |
| hvap | 53.23 | kJ/mol | Joback Method |
| log10ws | -3.55 | | Crippen Method |
| logp | 3.517 | | Crippen Method |
| mcvol | 185.530 | ml/mol | McGowan Method |
| pc | 1963.07 | kPa | Joback Method |
| rinpol | 1483.00 | | NIST Webbook |
| rinpol | 1481.00 | | NIST Webbook |
| rinpol | 1477.00 | | NIST Webbook |
| rinpol | 1469.00 | | NIST Webbook |
| rinpol | 1483.00 | | NIST Webbook |
| ripol | 1967.00 | | NIST Webbook |
| ripol | 1978.00 | | NIST Webbook |
| ripol | 1960.00 | | NIST Webbook |
| ripol | 1956.00 | | NIST Webbook |
| ripol | 1920.00 | | NIST Webbook |
| tb | 564.36 | K | Joback Method |
| tc | 743.50 | K | Joback Method |
| tf | 300.81 | K | Joback Method |
| vc | 0.719 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 446.93 | J/mol×K | 564.36 | Joback Method |
| cpg | 461.63 | J/mol×K | 594.22 | Joback Method |
| cpg | 475.70 | J/mol×K | 624.07 | Joback Method |
| cpg | 489.15 | J/mol×K | 653.93 | Joback Method |
| cpg | 501.98 | J/mol×K | 683.78 | Joback Method |
| cpg | 514.22 | J/mol×K | 713.64 | Joback Method |
| cpg | 525.87 | J/mol×K | 743.50 | Joback Method |
| dvisc | 0.0036823 | Pa×s | 300.81 | Joback Method |
| dvisc | 0.0016303 | Pa×s | 344.74 | Joback Method |
| dvisc | 0.0008677 | Pa×s | 388.66 | Joback Method |
| dvisc | 0.0005249 | Pa×s | 432.59 | Joback Method |
| dvisc | 0.0003484 | Pa×s | 476.51 | Joback Method |
| dvisc | 0.0002478 | Pa×s | 520.44 | Joback Method |
| dvisc | 0.0001859 | Pa×s | 564.36 | Joback Method |

# Sources

**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=R33395&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

# 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
**ripol:** Polar retention indices

| | |
|---|---|
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |