# 9-Dodecen-1-ol, acetate, (E)-

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|---|---|
| **Other names:** | (E)-9-Dodecen-1-ol acetate |
| | E-9-Dodecen-1-yl acetate |
| | (9E)-9-Dodecenyl acetate |
| | (E)-9-Dodecenyl acetate |
| | (E)-dodec-9-enyl acetate |
| **Inchi:** | InChI=1S/C14H26O2/c1-3-4-5-6-7-8-9-10-11-12-13-16-14(2)15/h4-5H,3,6-13H2,1-2H3/b |
| **InchiKey:** | MFFQOUCMBNXSBK-SNAWJCMRSA-N |
| **Formula:** | C14H26O2 |
| **SMILES:** | CCC=CCCCCCCCCOC(C)=O |
| **Mol. weight [g/mol]:** | 226.35 |
| **CAS:** | 35148-19-7 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -86.70 | kJ/mol | Joback Method |
| hf | -459.87 | kJ/mol | Joback Method |
| hfus | 35.00 | kJ/mol | Joback Method |
| hvap | 81.00 | kJ/mol | NIST Webbook |
| log10ws | -4.40 | | Crippen Method |
| logp | 4.246 | | Crippen Method |
| mcvol | 211.260 | ml/mol | McGowan Method |
| pc | 1647.09 | kPa | Joback Method |
| rinpol | 1607.00 | | NIST Webbook |
| ripol | 1970.00 | | NIST Webbook |
| ripol | 1920.00 | | NIST Webbook |
| ripol | 1978.00 | | NIST Webbook |
| tb | 600.17 | K | Joback Method |
| tc | 774.06 | K | Joback Method |
| tf | 314.62 | K | Joback Method |
| vc | 0.824 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|

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|---|---|---|---|---|
| cpg | 547.45 | J/mol×K | 600.17 | Joback Method |
| cpg | 563.96 | J/mol×K | 629.15 | Joback Method |
| cpg | 579.75 | J/mol×K | 658.13 | Joback Method |
| cpg | 594.83 | J/mol×K | 687.12 | Joback Method |
| cpg | 609.24 | J/mol×K | 716.10 | Joback Method |
| cpg | 622.98 | J/mol×K | 745.08 | Joback Method |
| cpg | 636.08 | J/mol×K | 774.06 | Joback Method |
| dvisc | 0.0025872 | Pa×s | 314.62 | Joback Method |
| dvisc | 0.0011349 | Pa×s | 362.21 | Joback Method |
| dvisc | 0.0006028 | Pa×s | 409.80 | Joback Method |
| dvisc | 0.0003653 | Pa×s | 457.40 | Joback Method |
| dvisc | 0.0002432 | Pa×s | 504.99 | Joback Method |
| dvisc | 0.0001737 | Pa×s | 552.58 | Joback Method |
| dvisc | 0.0001309 | Pa×s | 600.17 | Joback Method |

# Sources

**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=C35148197&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

# 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 |