# E-4-dodecenyl acetate

**Inchi:** InChI=1S/C14H26O2/c1-3-4-5-6-7-8-9-10-11-12-13-16-14(2)15/h9-10H,3-8,11-13H2,1-2
**InchiKey:** HVFBMRUBJRAFIN-MDZDMXLPSA-N
**Formula:** C14H26O2
**SMILES:** CCCCCCCC=CCCCOC(C)=O
**Mol. weight [g/mol]:** 226.35

## 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 | 55.87 | kJ/mol | Joback Method |
| log10ws | -4.40 | | Crippen Method |
| logp | 4.246 | | Crippen Method |
| mcvol | 211.260 | ml/mol | McGowan Method |
| pc | 1647.09 | kPa | Joback Method |
| ripol | 1957.00 | | NIST Webbook |
| ripol | 1957.00 | | NIST Webbook |
| ripol | 1951.00 | | 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 |
|---|---|---|---|---|
| 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 |

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|---|---|---|---|---|
| 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

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R86695&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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |