

E-10-dodecenyl acetate

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| Other names: | 10-Dodecen-1-ol, acetate, (E)- (E)-dodec-10-enyl acetate |
| Inchi: | InChI=1S/C14H26O2/c1-3-4-5-6-7-8-9-10-11-12-13-16-14(2)15/h3-4H,5-13H2,1-2H3/b4- |
| InchiKey: | JARZGLPTLYDJAG-ONEGZZNKSA-N |
| Formula: | C14H26O2 |
| SMILES: | CC=CCCCCCCCCOC(C)=O |
| Mol. weight [g/mol]: | 226.35 |
| CAS: | 35153-09-4 |

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 | 81.50 | 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 | 1615.00 | | NIST Webbook |
| ripol | 1951.00 | | NIST Webbook |
| ripol | 1948.00 | | NIST Webbook |
| ripol | 1942.00 | | NIST Webbook |
| ripol | 1942.00 | | NIST Webbook |
| tb | 600.17 | K | Joback Method |
| tc | 774.06 | K | Joback Method |
| tf | 314.62 | K | Joback Method |
| vc | 0.824 | m ³ /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 |

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|-------|-----------|---------|--------|---------------|
| cpg | 579.75 | J/molxK | 658.13 | Joback Method |
| cpg | 594.83 | J/molxK | 687.12 | Joback Method |
| cpg | 609.24 | J/molxK | 716.10 | Joback Method |
| cpg | 622.98 | J/molxK | 745.08 | Joback Method |
| cpg | 636.08 | J/molxK | 774.06 | Joback Method |
| dvisc | 0.0025872 | Paxs | 314.62 | Joback Method |
| dvisc | 0.0011349 | Paxs | 362.21 | Joback Method |
| dvisc | 0.0006028 | Paxs | 409.80 | Joback Method |
| dvisc | 0.0003653 | Paxs | 457.40 | Joback Method |
| dvisc | 0.0002432 | Paxs | 504.99 | Joback Method |
| dvisc | 0.0001737 | Paxs | 552.58 | Joback Method |
| dvisc | 0.0001309 | Paxs | 600.17 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=C35153094&Units=SI |

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

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<https://www.chemeo.com/cid/69-816-0/E-10-dodecenyl-acetate.pdf>

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