

# 2-Hexen-1-ol, acetate, (E)-

|                      |   |
|----------------------|---|
| Other names:         | (E)-2-Hexen-1-yl acetate<br>(E)-2-Hexenyl acetate<br>(E)-Hex-2-enyl acetate<br>2-Hexen-1-ol acetate<br>2-Hexen-1-yl acetate<br>2-Hexen-1-yl-acetate, (E)-<br>2-Hexenyl acetate<br>2-Hexenyl acetate, trans-<br>Hex-2-enyl acetate, trans-<br>hex-2-en-1-yl acetate<br>hex-2-enyl acetate<br>trans-2-Hexenyl acetate<br>trans-Hex-2-enyl acetate |
| Inchi:               | InChI=1S/C8H14O2/c1-3-4-5-6-7-10-8(2)9/h5-6H,3-4,7H2,1-2H3/b6-5+  |
| InchiKey:            | HRHOWZHRCRZVCU-AATRIKPKSA-N   |
| Formula:             | C8H14O2   |
| SMILES:              | CCCC=CCOC(C)=O  |
| Mol. weight [g/mol]: | 142.20  |
| CAS:                 | 2497-18-9   |

## Physical Properties

| Property code | Value   | Unit   | Source         |
|---------------|---------|--------|----------------|
| gf            | -137.22 | kJ/mol | Joback Method  |
| hf            | -336.03 | kJ/mol | Joback Method  |
| hfus          | 19.46   | kJ/mol | Joback Method  |
| hvap          | 42.52   | kJ/mol | Joback Method  |
| log10ws       | -1.89   |        | Crippen Method |
| logp          | 1.906   |        | Crippen Method |
| mcvol         | 126.720 | ml/mol | McGowan Method |
| pc            | 2805.41 | kPa    | Joback Method  |
| rinpol        | 995.00  |        | NIST Webbook   |
| rinpol        | 991.00  |        | NIST Webbook   |
| rinpol        | 991.40  |        | NIST Webbook   |
| rinpol        | 997.00  |        | NIST Webbook   |
| rinpol        | 994.00  |        | NIST Webbook   |
| rinpol        | 997.00  |        | NIST Webbook   |
| rinpol        | 996.00  |        | NIST Webbook   |

|        |         |              |
|--------|---------|--------------|
| rinpol | 997.00  | NIST Webbook |
| rinpol | 997.00  | NIST Webbook |
| rinpol | 1017.00 | NIST Webbook |
| rinpol | 1017.00 | NIST Webbook |
| rinpol | 995.80  | NIST Webbook |
| rinpol | 1019.00 | NIST Webbook |
| rinpol | 1014.00 | NIST Webbook |
| rinpol | 1020.00 | NIST Webbook |
| rinpol | 1016.00 | NIST Webbook |
| rinpol | 1028.00 | NIST Webbook |
| rinpol | 1018.00 | NIST Webbook |
| rinpol | 994.00  | NIST Webbook |
| rinpol | 995.00  | NIST Webbook |
| rinpol | 1014.00 | NIST Webbook |
| rinpol | 994.00  | NIST Webbook |
| rinpol | 995.00  | NIST Webbook |
| rinpol | 1010.00 | NIST Webbook |
| rinpol | 1010.00 | NIST Webbook |
| rinpol | 1003.00 | NIST Webbook |
| rinpol | 1016.00 | NIST Webbook |
| ripol  | 1338.00 | NIST Webbook |
| ripol  | 1344.00 | NIST Webbook |
| ripol  | 1359.00 | NIST Webbook |
| ripol  | 1315.00 | NIST Webbook |
| ripol  | 1315.00 | NIST Webbook |
| ripol  | 1315.00 | NIST Webbook |
| ripol  | 1339.00 | NIST Webbook |
| ripol  | 1336.00 | NIST Webbook |
| ripol  | 1346.00 | NIST Webbook |
| ripol  | 1332.00 | NIST Webbook |
| ripol  | 1322.00 | NIST Webbook |
| ripol  | 1330.00 | NIST Webbook |
| ripol  | 1338.00 | NIST Webbook |
| ripol  | 1338.00 | NIST Webbook |
| ripol  | 1334.00 | NIST Webbook |
| ripol  | 1325.00 | NIST Webbook |
| ripol  | 1323.00 | NIST Webbook |
| ripol  | 1344.00 | NIST Webbook |
| ripol  | 1337.00 | NIST Webbook |
| ripol  | 1330.00 | NIST Webbook |
| ripol  | 1340.00 | NIST Webbook |
| ripol  | 1345.00 | NIST Webbook |
| ripol  | 1346.00 | NIST Webbook |
| ripol  | 1323.00 | NIST Webbook |

|       |         |         |               |
|-------|---------|---------|---------------|
| ripol | 1340.00 |         | NIST Webbook  |
| ripol | 1354.00 |         | NIST Webbook  |
| ripol | 1333.00 |         | NIST Webbook  |
| ripol | 1321.00 |         | NIST Webbook  |
| ripol | 1334.00 |         | NIST Webbook  |
| ripol | 1323.00 |         | NIST Webbook  |
| ripol | 1337.00 |         | NIST Webbook  |
| ripol | 1331.00 |         | NIST Webbook  |
| ripol | 1322.00 |         | NIST Webbook  |
| ripol | 1325.00 |         | NIST Webbook  |
| ripol | 1333.00 |         | NIST Webbook  |
| ripol | 1333.00 |         | NIST Webbook  |
| ripol | 1322.00 |         | NIST Webbook  |
| ripol | 1325.00 |         | NIST Webbook  |
| ripol | 1337.00 |         | NIST Webbook  |
| ripol | 1320.00 |         | NIST Webbook  |
| ripol | 1315.00 |         | NIST Webbook  |
| ripol | 1341.00 |         | NIST Webbook  |
| ripol | 1331.00 |         | NIST Webbook  |
| ripol | 1323.00 |         | NIST Webbook  |
| ripol | 1338.00 |         | NIST Webbook  |
| ripol | 1342.00 |         | NIST Webbook  |
| tb    | 438.00  | K       | NIST Webbook  |
| tb    | 438.70  | K       | NIST Webbook  |
| tc    | 646.21  | K       | Joback Method |
| tf    | 247.00  | K       | Joback Method |
| vc    | 0.487   | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value  | Unit    | Temperature [K] | Source        |
|---------------|--------|---------|-----------------|---------------|
| cpg           | 263.30 | J/molxK | 462.89          | Joback Method |
| cpg           | 275.19 | J/molxK | 493.44          | Joback Method |
| cpg           | 286.60 | J/molxK | 524.00          | Joback Method |
| cpg           | 297.52 | J/molxK | 554.55          | Joback Method |
| cpg           | 307.96 | J/molxK | 585.10          | Joback Method |
| cpg           | 317.95 | J/molxK | 615.66          | Joback Method |
| cpg           | 327.49 | J/molxK | 646.21          | Joback Method |

|       |           |      |        |  |
|-------|-----------|------|--------|--|
| dvisc | 0.0007700 | Paxs | 303.15 | Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters |
| dvisc | 0.0008310 | Paxs | 298.15 | Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters |
| dvisc | 0.0009010 | Paxs | 293.15 | Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters |
| dvisc | 0.0007150 | Paxs | 308.15 | Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters |
| dvisc | 0.0006660 | Paxs | 313.15 | Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters |
| dvisc | 0.0006220 | Paxs | 318.15 | Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters |
| dvisc | 0.0005820 | Paxs | 323.15 | Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters |
| dvisc | 0.0005470 | Paxs | 328.15 | Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters |
| dvisc | 0.0005140 | Paxs | 333.15 | Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters |

|       |           |      |        |   |
|-------|-----------|------|--------|---|
| dvisc | 0.0009010 | Paxs | 293.15 | Density and Viscosity for a Binary Mixture of cis-3-Hexenyl Formate, Butyl Acetate, trans-2-Hexenyl Acetate, and cis-3-Hexenyl Acetate with Ethanol at Several Temperatures |
| dvisc | 0.0007700 | Paxs | 303.15 | Density and Viscosity for a Binary Mixture of cis-3-Hexenyl Formate, Butyl Acetate, trans-2-Hexenyl Acetate, and cis-3-Hexenyl Acetate with Ethanol at Several Temperatures |
| dvisc | 0.0006660 | Paxs | 313.15 | Density and Viscosity for a Binary Mixture of cis-3-Hexenyl Formate, Butyl Acetate, trans-2-Hexenyl Acetate, and cis-3-Hexenyl Acetate with Ethanol at Several Temperatures |

## Correlations

| Information                 | Value                         |
|-----------------------------|-------------------------------|
| Property code               | pvap                          |
| Equation                    | $\ln(P_{vp}) = A + B/(T + C)$ |
| Coeff. A                    | 1.50611e+01                   |
| Coeff. B                    | -3.96667e+03                  |
| Coeff. C                    | -6.30810e+01                  |
| Temperature range (K), min. | 331.58                        |
| Temperature range (K), max. | 469.94                        |

# Sources

|  |   |
|--|---|
| Crippen Method:  | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>   |
| Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters   | <a href="https://www.doi.org/10.1021/je050001c">https://www.doi.org/10.1021/je050001c</a>   |
| Density and Viscosity for a Binary Mixture of cis-3-Hexenyl Formate, Butyl Acetate, and cis-3-Hexenyl Acetate, and Joback Method | <a href="https://www.doi.org/10.1021/je0500025">https://www.doi.org/10.1021/je0500025</a>   |
| Joback Method  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>   |
| McGowan Method   | <a href="https://link.springer.com/article/10.1007/BF02311772">https://link.springer.com/article/10.1007/BF02311772</a>   |
| McGowan Method:  | <a href="https://link.springer.com/article/10.1007/BF02311772">https://link.springer.com/article/10.1007/BF02311772</a>   |
| NIST Webbook:  | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2497189&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2497189&amp;Units=SI</a>   |
| The Yaws Handbook of Vapor Pressure:   | <a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</a> |
| Crippen Method:  | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>   |

# Legend

|                 |   |
|-----------------|---|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>dvisc:</b>   | Dynamic viscosity                               |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>pvap:</b>    | Vapor pressure                                  |
| <b>rinpol:</b>  | Non-polar retention indices                     |
| <b>ripol:</b>   | Polar retention indices                         |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

Latest version available from:

<https://www.chemeo.com/cid/62-698-9/2-Hexen-1-ol-acetate-E.pdf>

Generated by Cheméo on 2025-12-05 15:35:39.401211553 +0000 UTC m=+4697136.931252212.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.