

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

<b>Other names:</b>	(E)-2-Hexen-1-yl acetate (E)-2-Hexenyl acetate (E)-Hex-2-enyl acetate 2-Hexen-1-ol acetate 2-Hexen-1-yl acetate 2-Hexen-1-yl-acetate, (E)- 2-Hexenyl acetate 2-Hexenyl acetate, trans- Hex-2-enyl acetate, trans- hex-2-en-1-yl acetate hex-2-enyl acetate trans-2-Hexenyl acetate trans-Hex-2-enyl acetate
<b>Inchi:</b>	InChI=1S/C8H14O2/c1-3-4-5-6-7-10-8(2)9/h5-6H,3-4,7H2,1-2H3/b6-5+
<b>InchiKey:</b>	HRHOWZHRCRZVCU-AATRIKPKSA-N
<b>Formula:</b>	C8H14O2
<b>SMILES:</b>	CCCC=CCOC(C)=O
<b>Mol. weight [g/mol]:</b>	142.20
<b>CAS:</b>	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	1003.00		NIST Webbook
rinpol	1010.00		NIST Webbook
rinpol	995.00		NIST Webbook
rinpol	994.00		NIST Webbook
rinpol	1014.00		NIST Webbook
rinpol	995.00		NIST Webbook

rinpol	994.00	NIST Webbook
rinpol	1018.00	NIST Webbook
rinpol	1028.00	NIST Webbook
rinpol	1016.00	NIST Webbook
rinpol	1020.00	NIST Webbook
rinpol	1016.00	NIST Webbook
rinpol	1014.00	NIST Webbook
rinpol	1019.00	NIST Webbook
rinpol	995.80	NIST Webbook
rinpol	1017.00	NIST Webbook
rinpol	1017.00	NIST Webbook
rinpol	997.00	NIST Webbook
rinpol	997.00	NIST Webbook
rinpol	996.00	NIST Webbook
rinpol	997.00	NIST Webbook
rinpol	994.00	NIST Webbook
rinpol	997.00	NIST Webbook
rinpol	991.00	NIST Webbook
rinpol	991.40	NIST Webbook
rinpol	1010.00	NIST Webbook
ripol	1333.00	NIST Webbook
ripol	1322.00	NIST Webbook
ripol	1325.00	NIST Webbook
ripol	1333.00	NIST Webbook
ripol	1331.00	NIST Webbook
ripol	1322.00	NIST Webbook
ripol	1325.00	NIST Webbook
ripol	1337.00	NIST Webbook
ripol	1337.00	NIST Webbook
ripol	1342.00	NIST Webbook
ripol	1341.00	NIST Webbook
ripol	1331.00	NIST Webbook
ripol	1323.00	NIST Webbook
ripol	1338.00	NIST Webbook
ripol	1344.00	NIST Webbook
ripol	1346.00	NIST Webbook
ripol	1315.00	NIST Webbook
ripol	1334.00	NIST Webbook
ripol	1320.00	NIST Webbook
ripol	1321.00	NIST Webbook
ripol	1333.00	NIST Webbook
ripol	1354.00	NIST Webbook
ripol	1340.00	NIST Webbook
ripol	1323.00	NIST Webbook

ripol	1346.00		NIST Webbook
ripol	1345.00		NIST Webbook
ripol	1340.00		NIST Webbook
ripol	1330.00		NIST Webbook
ripol	1337.00		NIST Webbook
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ripol	1332.00		NIST Webbook
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ripol	1336.00		NIST Webbook
ripol	1339.00		NIST Webbook
ripol	1315.00		NIST Webbook
ripol	1315.00		NIST Webbook
ripol	1359.00		NIST Webbook
ripol	1315.00		NIST Webbook
ripol	1323.00		NIST Webbook
ripol	1323.00		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	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

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

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	0.0005140	Paxs	333.15	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	0.0007700	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
dvisc	0.0005820	Paxs	323.15	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	0.0006660	Paxs	313.15	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	0.0007700	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

## 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:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Density and Viscosity Correlation for Several Common Fragrance and Flavor Esters:** <https://www.doi.org/10.1021/je050001c>

Density and Viscosity for a Binary Mixture of cis-3-Hexenyl Formate, Butyl Acetate, and cis-3-Hexenyl Acetate, and cis-3-Hexenyl Acetate with Ethanol at Several Temperatures:

NIST Webbook:

The Yaws Handbook of Vapor Pressure:

<https://www.doi.org/10.1021/je0500025>

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

<http://link.springer.com/article/10.1007/BF02311772>

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C2497189&Units=SI>

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>

## 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>rinpola:</b>	Non-polar retention indices
<b>ripola:</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

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