

# (E)-cinnamyl alcohol

<b>Other names:</b>	(E)-3-phenylprop-2-en-1-ol 2-Propen-1-ol, 3-phenyl-, (E)- E-Cinnamic alcohol trans-cinnamyl alcohol
<b>Inchi:</b>	InChI=1S/C9H10O/c10-8-4-7-9-5-2-1-3-6-9/h1-7,10H,8H2/b7-4+
<b>InchiKey:</b>	OOCCEMITAIZTP-QPJXVBHSA-N
<b>Formula:</b>	C9H10O
<b>SMILES:</b>	OCC=Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	134.18
<b>CAS:</b>	4407-36-7

## Physical Properties

Property code	Value	Unit	Source
gf	80.71	kJ/mol	Joback Method
hf	-27.57	kJ/mol	Joback Method
hfus	17.40	kJ/mol	Joback Method
hvap	54.54	kJ/mol	Joback Method
log10ws	-1.98		Crippen Method
logp	1.692		Crippen Method
mcvol	115.480	ml/mol	McGowan Method
pc	3872.29	kPa	Joback Method
rinpol	1273.00		NIST Webbook
rinpol	1315.00		NIST Webbook
rinpol	1297.00		NIST Webbook
rinpol	1319.00		NIST Webbook
rinpol	1319.00		NIST Webbook
rinpol	1310.00		NIST Webbook
rinpol	1305.00		NIST Webbook
rinpol	1333.00		NIST Webbook
rinpol	1268.00		NIST Webbook
rinpol	1315.00		NIST Webbook
rinpol	1278.00		NIST Webbook
rinpol	1310.10		NIST Webbook
rinpol	1278.00		NIST Webbook
rinpol	1310.10		NIST Webbook
rinpol	1303.00		NIST Webbook
rinpol	1302.00		NIST Webbook

ripol	1308.00		NIST Webbook
ripol	2263.00		NIST Webbook
ripol	2289.00		NIST Webbook
ripol	2284.00		NIST Webbook
ripol	2263.00		NIST Webbook
ripol	2334.00		NIST Webbook
ripol	2257.00		NIST Webbook
ripol	2334.00		NIST Webbook
tb	530.70	K	NIST Webbook
tc	732.08	K	Joback Method
tf	305.62	K	Determination and Correlation of Solubility and Thermodynamic Properties of trans-Cinnamyl Alcohol in Pure and Binary Solvents from 253.15 K to 293.15 K
vc	0.430	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	248.22	J/molxK	528.34	Joback Method
cpg	259.32	J/molxK	562.30	Joback Method
cpg	269.69	J/molxK	596.25	Joback Method
cpg	279.40	J/molxK	630.21	Joback Method
cpg	288.47	J/molxK	664.17	Joback Method
cpg	296.96	J/molxK	698.12	Joback Method
cpg	304.90	J/molxK	732.08	Joback Method
dvisc	0.0169277	Paxs	273.35	Joback Method
dvisc	0.0040869	Paxs	315.85	Joback Method
dvisc	0.0013823	Paxs	358.35	Joback Method
dvisc	0.0005883	Paxs	400.85	Joback Method
dvisc	0.0002950	Paxs	443.34	Joback Method
dvisc	0.0001669	Paxs	485.84	Joback Method
dvisc	0.0001035	Paxs	528.34	Joback Method
hsubt	109.60	kJ/mol	297.50	NIST Webbook

## Sources

**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**Determination and Correlation of Solubility and Thermodynamic Properties of trans-Cinnamyl Alcohol in Pure and Binary Solvents from 253.15 K to 293.15 K:** <https://www.doi.org/10.1021/acs.jced.7b00665>  
**Joback Method:** [https://en.wikipedia.org/wiki/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=C4407367&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## 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  
**hsubt:** Enthalpy of sublimation at a given temperature  
**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

Latest version available from:

<https://www.chemeo.com/cid/41-149-1/E-cinnamyl-alcohol.pdf>

Generated by Cheméo on 2026-05-23 06:36:25.075348226 +0000 UTC m=+3283534.133430448.

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