

# Amylcinnamaldehyde

<b>Other names:</b>	2-Propenal, 2-pentyl-3-phenyl cinnamaldehyde, monopentyl derivative
<b>Inchi:</b>	InChI=1S/C14H18O/c1-2-3-5-10-14(12-15)11-13-8-6-4-7-9-13/h4,6-9,11-12H,2-3,5,10H2
<b>InchiKey:</b>	HMKKIXGYKWDQSV-SDNWHVVSQSA-N
<b>Formula:</b>	C14H18O
<b>SMILES:</b>	CCCCC(C=O)=Cc1cccc1
<b>Mol. weight [g/mol]:</b>	202.29
<b>CAS:</b>	1331-92-6

## Physical Properties

Property code	Value	Unit	Source
gf	151.56	kJ/mol	Joback Method
hf	-73.91	kJ/mol	Joback Method
hfus	27.24	kJ/mol	Joback Method
hvap	55.79	kJ/mol	Joback Method
log10ws	-4.09		Crippen Method
logp	3.849		Crippen Method
mcvol	181.630	ml/mol	McGowan Method
pc	2267.57	kPa	Joback Method
rinpol	1669.00		NIST Webbook
rinpol	1665.00		NIST Webbook
rinpol	1669.00		NIST Webbook
rinpol	1662.00		NIST Webbook
rinpol	1662.00		NIST Webbook
rinpol	1664.00		NIST Webbook
rinpol	1664.00		NIST Webbook
rinpol	1663.00		NIST Webbook
rinpol	1647.00		NIST Webbook
ripol	2081.00		NIST Webbook
ripol	2081.00		NIST Webbook
tb	599.10	K	Joback Method
tc	808.30	K	Joback Method
tf	296.92	K	Joback Method
vc	0.710	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	446.88	J/molxK	599.10	Joback Method
cpg	463.04	J/molxK	633.97	Joback Method
cpg	478.20	J/molxK	668.83	Joback Method
cpg	492.41	J/molxK	703.70	Joback Method
cpg	505.72	J/molxK	738.57	Joback Method
cpg	518.21	J/molxK	773.44	Joback Method
cpg	529.91	J/molxK	808.30	Joback Method

## Sources

Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1331926&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1331926&amp;Units=SI</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>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>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

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