

# Propylcinnamic aldehyde

<b>Inchi:</b>	InChI=1S/C12H14O/c1-2-6-12(10-13)9-11-7-4-3-5-8-11/h3-5,7-10H,2,6H2,1H3/b12-9+
<b>InchiKey:</b>	FMWHWCCEBSGQQV-FMIVXFBMSA-N
<b>Formula:</b>	C12H14O
<b>SMILES:</b>	CCCC(C=O)=Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	174.24

## Physical Properties

Property code	Value	Unit	Source
gf	134.72	kJ/mol	Joback Method
hf	-32.63	kJ/mol	Joback Method
hfus	22.06	kJ/mol	Joback Method
hvap	51.34	kJ/mol	Joback Method
log10ws	-3.25		Crippen Method
logp	3.069		Crippen Method
mvol	153.450	ml/mol	McGowan Method
pc	2746.90	kPa	Joback Method
rinpol	1531.00		NIST Webbook
ripol	2111.00		NIST Webbook
tb	553.34	K	Joback Method
tc	769.64	K	Joback Method
tf	274.38	K	Joback Method
vc	0.598	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	350.00	J/mol×K	553.34	Joback Method
cpg	364.94	J/mol×K	589.39	Joback Method
cpg	378.91	J/mol×K	625.44	Joback Method
cpg	391.94	J/mol×K	661.49	Joback Method
cpg	404.11	J/mol×K	697.54	Joback Method
cpg	415.47	J/mol×K	733.59	Joback Method
cpg	426.07	J/mol×K	769.64	Joback Method

# Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R410181&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R410181&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</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.cheméo.com/cid/68-413-8/Propylcinnamic-aldehyde.pdf>

Generated by Cheméo on 2024-04-27 07:20:42.226068258 +0000 UTC m=+16491691.146645570.

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