

# (Z)-2-Hexyl-cinnamaldehyde

<b>Other names:</b>	(Z)-2-Hexylcinnamic aldehyde
<b>Inchi:</b>	InChI=1S/C15H20O/c1-2-3-4-6-11-15(13-16)12-14-9-7-5-8-10-14/h5,7-10,12-13H,2-4,6,1
<b>InchiKey:</b>	GUUHFMWKWLOQMM-QINSGFPZSA-N
<b>Formula:</b>	C15H20O
<b>SMILES:</b>	CCCCCCC(C=O)=Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	216.32

## Physical Properties

Property code	Value	Unit	Source
gf	159.98	kJ/mol	Joback Method
hf	-94.55	kJ/mol	Joback Method
hfus	29.83	kJ/mol	Joback Method
hvap	58.02	kJ/mol	Joback Method
log10ws	-4.51		Crippen Method
logp	4.239		Crippen Method
mvol	195.720	ml/mol	McGowan Method
pc	2073.65	kPa	Joback Method
rinpol	1773.00		NIST Webbook
tb	621.98	K	Joback Method
tc	827.96	K	Joback Method
tf	308.19	K	Joback Method
vc	0.765	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	497.60	J/mol×K	621.98	Joback Method
cpg	514.24	J/mol×K	656.31	Joback Method
cpg	529.87	J/mol×K	690.64	Joback Method
cpg	544.54	J/mol×K	724.97	Joback Method
cpg	558.31	J/mol×K	759.30	Joback Method
cpg	571.25	J/mol×K	793.63	Joback Method
cpg	583.40	J/mol×K	827.96	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<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=R411491&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R411491&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>

# 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>h vap:</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>r in pol:</b>	Non-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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