

# Z-3-Chloro-2-propyl-pent-2-enal

<b>Inchi:</b>	InChI=1S/C9H15ClO/c1-3-5-8(7-11)9(10)6-4-2/h7H,3-6H2,1-2H3/b9-8-
<b>InchiKey:</b>	LTPSZDYJWRDUSF-HJWRWDBZSA-N
<b>Formula:</b>	C9H15ClO
<b>SMILES:</b>	CCCC(Cl)=C(C=O)CCC
<b>Mol. weight [g/mol]:</b>	174.67

## Physical Properties

Property code	Value	Unit	Source
gf	-23.43	kJ/mol	Joback Method
hf	-232.77	kJ/mol	Joback Method
hfus	23.13	kJ/mol	Joback Method
hvap	46.85	kJ/mol	Joback Method
log10ws	-3.37		Crippen Method
logp	3.278		Crippen Method
mvol	147.180	ml/mol	McGowan Method
pc	2543.05	kPa	Joback Method
ripol	1019.90		NIST Webbook
ripol	1412.20		NIST Webbook
tb	495.33	K	Joback Method
tc	685.47	K	Joback Method
tf	230.11	K	Joback Method
vc	0.588	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	310.82	J/mol×K	495.33	Joback Method
cpg	323.50	J/mol×K	527.02	Joback Method
cpg	335.53	J/mol×K	558.71	Joback Method
cpg	346.94	J/mol×K	590.40	Joback Method
cpg	357.76	J/mol×K	622.09	Joback Method
cpg	368.01	J/mol×K	653.78	Joback Method
cpg	377.73	J/mol×K	685.47	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R154222&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R154222&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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>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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