

# 3-Cyclohex-1-enyl-prop-2-enal

<b>Other names:</b>	2-Propenal, 3-(1-cyclohexenyl)
<b>Inchi:</b>	InChI=1S/C9H12O/c10-8-4-7-9-5-2-1-3-6-9/h4-5,7-8H,1-3,6H2/b7-4+
<b>InchiKey:</b>	JGUXSPMZBDGHFV-QPJXVBHSA-N
<b>Formula:</b>	C9H12O
<b>SMILES:</b>	O=CC=CC1=CCCCC1
<b>Mol. weight [g/mol]:</b>	136.19

## Physical Properties

Property code	Value	Unit	Source
gf	58.09	kJ/mol	Joback Method
hf	-76.48	kJ/mol	Joback Method
hfus	13.15	kJ/mol	Joback Method
hvap	44.00	kJ/mol	Joback Method
log10ws	-2.47		Crippen Method
logp	2.242		Crippen Method
mcvol	119.780	ml/mol	McGowan Method
pc	3472.45	kPa	Joback Method
rinpol	1001.00		NIST Webbook
rinpol	1001.00		NIST Webbook
tb	486.50	K	Joback Method
tc	705.22	K	Joback Method
tf	253.01	K	Joback Method
vc	0.457	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	250.09	J/mol×K	486.50	Joback Method
cpg	264.77	J/mol×K	522.95	Joback Method
cpg	278.51	J/mol×K	559.41	Joback Method
cpg	291.36	J/mol×K	595.86	Joback Method
cpg	303.37	J/mol×K	632.31	Joback Method
cpg	314.59	J/mol×K	668.77	Joback Method
cpg	325.06	J/mol×K	705.22	Joback Method

dvisc	0.0048247	Paxs	253.01	Joback Method
dvisc	0.0021302	Paxs	291.93	Joback Method
dvisc	0.0011400	Paxs	330.84	Joback Method
dvisc	0.0006958	Paxs	369.75	Joback Method
dvisc	0.0004666	Paxs	408.67	Joback Method
dvisc	0.0003354	Paxs	447.58	Joback Method
dvisc	0.0002542	Paxs	486.50	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U193702&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U193702&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>dvisc:</b>	Dynamic viscosity
<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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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