

# Prop-2-enenitrile, 3-(2-chlorophenyl)-

<b>Other names:</b>	Cinnamionitrile, 2-chloro, trans
<b>Inchi:</b>	InChI=1S/C9H6ClN/c10-9-6-2-1-4-8(9)5-3-7-11/h1-6H
<b>InchiKey:</b>	PWWUUGALKZGDSU-UHFFFAOYSA-N
<b>Formula:</b>	C9H6ClN
<b>SMILES:</b>	N#CC=Cc1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	163.60
<b>CAS:</b>	74738-21-9

## Physical Properties

Property code	Value	Unit	Source
gf	329.15	kJ/mol	Joback Method
hf	262.33	kJ/mol	Joback Method
hfus	18.62	kJ/mol	Joback Method
hvap	53.39	kJ/mol	Joback Method
log10ws	-3.27		Crippen Method
logp	2.877		Crippen Method
mcvol	123.230	ml/mol	McGowan Method
pc	3170.40	kPa	Joback Method
rinpol	1424.00		NIST Webbook
tb	580.65	K	Joback Method
tc	824.26	K	Joback Method
tf	319.96	K	Joback Method
vc	0.486	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	245.87	J/mol×K	580.65	Joback Method
cpg	255.46	J/mol×K	621.25	Joback Method
cpg	264.29	J/mol×K	661.85	Joback Method
cpg	272.42	J/mol×K	702.46	Joback Method
cpg	279.91	J/mol×K	743.06	Joback Method
cpg	286.82	J/mol×K	783.66	Joback Method
cpg	293.20	J/mol×K	824.26	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=C74738219&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C74738219&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.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>

# 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>hvp:</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>rinp:</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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