

# «alpha»-(p-Chlorophenyl)cinnamotrile

<b>Other names:</b>	Acrylonitrile, 2-(p-chlorophenyl)-3-phenyl-Benzal-(4'-chlor-benzyl-cyanid) Benzeneacetonitrile, 4-chloro-«alpha»-(phenylmethylene)-2-(p-Chlorophenyl)-3-phenylacrylonitrile F 2389 alpha-(p-Chlorophenyl)cinnamotrile
<b>Inchi:</b>	InChI=1S/C15H10ClN/c16-15-8-6-13(7-9-15)14(11-17)10-12-4-2-1-3-5-12/h1-10H/b14-10
<b>InchiKey:</b>	JJGLLZWUWIKTAG-GXDHUFHOSA-N
<b>Formula:</b>	C15H10ClN
<b>SMILES:</b>	<chem>N#CC(=Cc1ccccc1)c1ccc(Cl)cc1</chem>
<b>Mol. weight [g/mol]:</b>	239.70
<b>CAS:</b>	3695-93-0

## Physical Properties

Property code	Value	Unit	Source
gf	483.53	kJ/mol	Joback Method
hf	365.23	kJ/mol	Joback Method
hfus	26.89	kJ/mol	Joback Method
hvap	69.10	kJ/mol	Joback Method
log10ws	-5.05		Crippen Method
logp	4.404		Crippen Method
mcvol	184.010	ml/mol	McGowan Method
pc	2460.47	kPa	Joback Method
tb	744.49	K	Joback Method
tc	1009.08	K	Joback Method
tf	400.04	K	Joback Method
vc	0.716	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	447.90	J/mol×K	744.49	Joback Method
cpg	460.36	J/mol×K	788.59	Joback Method
cpg	471.71	J/mol×K	832.69	Joback Method

cpg	482.09	J/mol×K	876.79	Joback Method
cpg	491.62	J/mol×K	920.88	Joback Method
cpg	500.43	J/mol×K	964.98	Joback Method
cpg	508.65	J/mol×K	1009.08	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=C3695930&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3695930&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>

## 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>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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