

# «alpha»-Cyano-3-hydroxycinnamic acid

<b>Other names:</b>	2-Propenoic acid, 2-cyano-3-(3-hydroxyphenyl)- alpha-cyano-m-hydroxycinnamic acid
<b>Inchi:</b>	InChI=1S/C10H7NO3/c11-6-8(10(13)14)4-7-2-1-3-9(12)5-7/h1-5,12H,(H,13,14)/b8-4+
<b>InchiKey:</b>	HPLNTJVXWMJLNJ-XBXARRHUSA-N
<b>Formula:</b>	C10H7NO3
<b>SMILES:</b>	N#CC(=Cc1ccc(O)c1)C(=O)O
<b>Mol. weight [g/mol]:</b>	189.17
<b>CAS:</b>	54673-07-3

## Physical Properties

Property code	Value	Unit	Source
gf	-69.78	kJ/mol	Joback Method
hf	-183.01	kJ/mol	Joback Method
hfus	27.57	kJ/mol	Joback Method
hvap	87.08	kJ/mol	Joback Method
log10ws	-1.65		Crippen Method
logp	1.384		Crippen Method
mcvol	138.390	ml/mol	McGowan Method
pc	4379.97	kPa	Joback Method
tb	787.67	K	Joback Method
tc	1019.81	K	Joback Method
tf	497.30	K	Joback Method
vc	0.485	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	355.63	J/mol×K	787.67	Joback Method
cpg	362.77	J/mol×K	826.36	Joback Method
cpg	369.59	J/mol×K	865.05	Joback Method
cpg	376.20	J/mol×K	903.74	Joback Method
cpg	382.72	J/mol×K	942.43	Joback Method
cpg	389.23	J/mol×K	981.12	Joback Method
cpg	395.87	J/mol×K	1019.81	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=C54673073&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C54673073&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>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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