

# Hydrocinnamic acid, 2,3,4,5,6-pentafluoro-

<b>Inchi:</b>	InChI=1S/C9H5F5O2/c10-5-3(1-2-4(15)16)6(11)8(13)9(14)7(5)12/h1-2H2,(H,15,16)
<b>InchiKey:</b>	KBAMYOFXGBJADC-UHFFFAOYSA-N
<b>Formula:</b>	C9H5F5O2
<b>SMILES:</b>	O=C(O)CCc1c(F)c(F)c(F)c(F)c1F
<b>Mol. weight [g/mol]:</b>	240.13
<b>CAS:</b>	2002-92-8

## Physical Properties

Property code	Value	Unit	Source
gf	-1150.63	kJ/mol	Joback Method
hf	-1295.27	kJ/mol	Joback Method
hfus	32.25	kJ/mol	Joback Method
hvap	60.55	kJ/mol	Joback Method
log10ws	-3.45		Crippen Method
logp	2.399		Crippen Method
mcvol	130.200	ml/mol	McGowan Method
pc	2781.78	kPa	Joback Method
tb	599.30	K	Joback Method
tc	768.13	K	Joback Method
tf	393.91	K	Joback Method
vc	0.546	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.22	J/molxK	599.30	Joback Method
cpg	324.61	J/molxK	627.44	Joback Method
cpg	331.69	J/molxK	655.58	Joback Method
cpg	338.43	J/molxK	683.71	Joback Method
cpg	344.86	J/molxK	711.85	Joback Method
cpg	350.96	J/molxK	739.99	Joback Method
cpg	356.75	J/molxK	768.13	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C2002928&amp;Units=SI&amp;Mask=3FFF">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2002928&amp;Units=SI&amp;Mask=3FFF</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>mccvol:</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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