

# 9-Fluorenone-4-carboxylic acid

<b>Other names:</b>	9H-Fluorene-4-carboxylic acid, 9-oxo-9-oxofluorene-4-carboxylic acid
<b>Inchi:</b>	InChI=1S/C14H8O3/c15-13-9-5-2-1-4-8(9)12-10(13)6-3-7-11(12)14(16)17/h1-7H,(H,16,17)
<b>InchiKey:</b>	AFQYQSWTVCNJQT-UHFFFAOYSA-N
<b>Formula:</b>	C14H8O3
<b>SMILES:</b>	O=C(O)c1cccc2c1-c1cccc1C2=O
<b>Mol. weight [g/mol]:</b>	224.21
<b>CAS:</b>	6223-83-2

## Physical Properties

Property code	Value	Unit	Source
gf	-32.74	kJ/mol	Joback Method
hf	-190.69	kJ/mol	Joback Method
hfus	25.39	kJ/mol	Joback Method
hvap	80.85	kJ/mol	Joback Method
log10ws	-4.34		Crippen Method
logp	2.596		Crippen Method
mvol	158.750	ml/mol	McGowan Method
pc	3708.97	kPa	Joback Method
tb	804.76	K	Joback Method
tc	1043.25	K	Joback Method
tf	546.13	K	Joback Method
vc	0.610	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	430.37	J/molxK	804.76	Joback Method
cpg	439.96	J/molxK	844.51	Joback Method
cpg	448.88	J/molxK	884.26	Joback Method
cpg	457.21	J/molxK	924.01	Joback Method
cpg	465.02	J/molxK	963.76	Joback Method
cpg	472.41	J/molxK	1003.50	Joback Method
cpg	479.43	J/molxK	1043.25	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C6223832&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6223832&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>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>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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