

# Benzeneacetic acid, 2-fluoro-

<b>Other names:</b>	o-Fluorophenylacetic acid 2-Fluorophenylacetic acid Acetic acid, (o-fluorophenyl)-
<b>Inchi:</b>	InChI=1S/C8H7FO2/c9-7-4-2-1-3-6(7)5-8(10)11/h1-4H,5H2,(H,10,11)
<b>InchiKey:</b>	RPTRFSADOICSSK-UHFFFAOYSA-N
<b>Formula:</b>	C8H7FO2
<b>SMILES:</b>	O=C(O)Cc1ccccc1F
<b>Mol. weight [g/mol]:</b>	154.14
<b>CAS:</b>	451-82-1

## Physical Properties

Property code	Value	Unit	Source
gf	-341.29	kJ/mol	Joback Method
hf	-444.31	kJ/mol	Joback Method
hfus	18.89	kJ/mol	Joback Method
hvap	58.95	kJ/mol	Joback Method
log10ws	-1.70		Crippen Method
logp	1.453		Crippen Method
mcvol	109.030	ml/mol	McGowan Method
pc	4109.14	kPa	Joback Method
tb	559.42	K	Joback Method
tc	757.03	K	Joback Method
tf	330.20	K	Joback Method
vc	0.418	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	244.17	J/molxK	559.42	Joback Method
cpg	253.02	J/molxK	592.36	Joback Method
cpg	261.35	J/molxK	625.29	Joback Method
cpg	269.17	J/molxK	658.23	Joback Method
cpg	276.51	J/molxK	691.16	Joback Method
cpg	283.38	J/molxK	724.10	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C451821&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C451821&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>
<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>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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