

# 3-Fluorobenzoic acid, 4-nitrophenyl ester

<b>Inchi:</b>	InChI=1S/C13H8FNO4/c14-10-3-1-2-9(8-10)13(16)19-12-6-4-11(5-7-12)15(17)18/h1-8H
<b>InchiKey:</b>	SUBDOSZYCCUGC-UHFFFAOYSA-N
<b>Formula:</b>	C13H8FNO4
<b>SMILES:</b>	O=C(Oc1ccc([N+](=O)[O-])cc1)c1cccc(F)c1
<b>Mol. weight [g/mol]:</b>	261.21

## Physical Properties

Property code	Value	Unit	Source
gf	-129.04	kJ/mol	Joback Method
hf	-313.20	kJ/mol	Joback Method
hfus	33.96	kJ/mol	Joback Method
hvap	75.34	kJ/mol	Joback Method
log10ws	-4.54		Crippen Method
logp	2.953		Crippen Method
mcvol	173.140	ml/mol	McGowan Method
pc	3015.64	kPa	Joback Method
rinpol	2029.00		NIST Webbook
rinpol	2029.00		NIST Webbook
tb	787.56	K	Joback Method
tc	1044.15	K	Joback Method
tf	530.51	K	Joback Method
vc	0.671	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	463.79	J/molxK	787.56	Joback Method
cpg	474.79	J/molxK	830.33	Joback Method
cpg	484.66	J/molxK	873.09	Joback Method
cpg	493.43	J/molxK	915.86	Joback Method
cpg	501.16	J/molxK	958.62	Joback Method
cpg	507.90	J/molxK	1001.39	Joback Method
cpg	513.70	J/molxK	1044.15	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U307730&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307730&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>rinp:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/120-516-5/3-Fluorobenzoic-acid-4-nitrophenyl-ester.pdf>

Generated by Cheméo on 2024-04-27 23:07:10.203916682 +0000 UTC m=+16548479.124494004.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.