

# Benzene, 1-fluoro-4-(2-nitro-1-propenyl)-

<b>Other names:</b>	Benzene, 1-fluoro-4-(2-nitropropenyl)- p-Fluoro-«beta»-nitropropenylbenzene
<b>Inchi:</b>	InChI=1S/C9H8FNO2/c1-7(11(12)13)6-8-2-4-9(10)5-3-8/h2-6H,1H3/b7-6+
<b>InchiKey:</b>	VOAXWARMFBBINZ-VOTSOKGWSA-N
<b>Formula:</b>	C9H8FNO2
<b>SMILES:</b>	CC(=Cc1ccc(F)cc1)[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	181.16
<b>CAS:</b>	775-31-5

## Physical Properties

Property code	Value	Unit	Source
gf	40.09	kJ/mol	Joback Method
hf	-103.47	kJ/mol	Joback Method
hfus	26.05	kJ/mol	Joback Method
hvap	54.38	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	2.463		Crippen Method
mvol	128.800	ml/mol	McGowan Method
pc	3295.37	kPa	Joback Method
tb	592.13	K	Joback Method
tc	834.59	K	Joback Method
tf	355.29	K	Joback Method
vc	0.512	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.34	J/mol×K	592.13	Joback Method
cpg	310.30	J/mol×K	632.54	Joback Method
cpg	321.32	J/mol×K	672.95	Joback Method
cpg	331.48	J/mol×K	713.36	Joback Method
cpg	340.84	J/mol×K	753.77	Joback Method
cpg	349.46	J/mol×K	794.18	Joback Method
cpg	357.42	J/mol×K	834.59	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=C775315&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C775315&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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