

# 3,4-Difluoronitrobenzene

<b>Other names:</b>	Benzene, 1,2-difluoro-4-nitro- 1,2-Difluoro-4-nitrobenzene
<b>Inchi:</b>	InChI=1S/C6H3F2NO2/c7-5-2-1-4(9(10)11)3-6(5)8/h1-3H
<b>InchiKey:</b>	RUBQQRMAWLSCCJ-UHFFFAOYSA-N
<b>Formula:</b>	C6H3F2NO2
<b>SMILES:</b>	O=[N+](O-)c1ccc(F)c(F)c1
<b>Mol. weight [g/mol]:</b>	159.09
<b>CAS:</b>	369-34-6

## Physical Properties

Property code	Value	Unit	Source
gf	-261.28	kJ/mol	Joback Method
hf	-356.56	kJ/mol	Joback Method
hfus	22.08	kJ/mol	Joback Method
hvap	47.51	kJ/mol	Joback Method
log10ws	-2.79		Crippen Method
logp	1.873		Crippen Method
mvol	92.600	ml/mol	McGowan Method
pc	4051.80	kPa	Joback Method
tb	523.70	K	Joback Method
tc	753.60	K	Joback Method
tf	353.63	K	Joback Method
vc	0.382	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	195.39	J/mol×K	523.70	Joback Method
cpg	203.84	J/mol×K	562.02	Joback Method
cpg	211.70	J/mol×K	600.33	Joback Method
cpg	219.01	J/mol×K	638.65	Joback Method
cpg	225.78	J/mol×K	676.96	Joback Method
cpg	232.03	J/mol×K	715.28	Joback Method
cpg	237.80	J/mol×K	753.60	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	373.00	K	2.70	NIST Webbook

## Sources

Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C369346&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C369346&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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