

# 2,4-Difluorobenzoic acid, 2-nitro-5-fluorophenyl ester

<b>Inchi:</b>	InChI=1S/C13H6F3NO4/c14-7-1-3-9(10(16)5-7)13(18)21-12-6-8(15)2-4-11(12)17(19)20/
<b>InchiKey:</b>	NACJRYOZWYXNCH-UHFFFAOYSA-N
<b>Formula:</b>	C13H6F3NO4
<b>SMILES:</b>	O=C(Oc1cc(F)ccc1[N+](=O)[O-])c1ccc(F)cc1F
<b>Mol. weight [g/mol]:</b>	297.19

## Physical Properties

Property code	Value	Unit	Source
gf	-537.92	kJ/mol	Joback Method
hf	-728.36	kJ/mol	Joback Method
hfus	39.34	kJ/mol	Joback Method
hvap	75.03	kJ/mol	Joback Method
log10ws	-5.20		Crippen Method
logp	3.231		Crippen Method
mcvol	176.680	ml/mol	McGowan Method
pc	2654.29	kPa	Joback Method
rinpol	1935.00		NIST Webbook
tb	796.06	K	Joback Method
tc	1033.47	K	Joback Method
tf	556.73	K	Joback Method
vc	0.708	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	475.61	J/molxK	796.06	Joback Method
cpg	485.34	J/molxK	835.63	Joback Method
cpg	494.10	J/molxK	875.20	Joback Method
cpg	501.94	J/molxK	914.76	Joback Method
cpg	508.86	J/molxK	954.33	Joback Method
cpg	514.91	J/molxK	993.90	Joback Method
cpg	520.09	J/molxK	1033.47	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357601&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357601&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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/21-527-3/2-4-Difluorobenzoic-acid-2-nitro-5-fluorophenyl-ester.pdf>

Generated by Cheméo on 2024-04-19 21:46:09.080457497 +0000 UTC m=+15852418.001034812.

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