

# 2,5-Difluorobenzoic acid, 4-nitrophenyl ester

<b>Inchi:</b>	InChI=1S/C13H7F2NO4/c14-8-1-6-12(15)11(7-8)13(17)20-10-4-2-9(3-5-10)16(18)19/h1-
<b>InchiKey:</b>	AVQKHGLGGQZWJR-UHFFFAOYSA-N
<b>Formula:</b>	C13H7F2NO4
<b>SMILES:</b>	O=C(Oc1ccc([N+](=O)[O-])cc1)c1cc(F)ccc1F
<b>Mol. weight [g/mol]:</b>	279.20

## Physical Properties

Property code	Value	Unit	Source
gf	-333.48	kJ/mol	Joback Method
hf	-520.78	kJ/mol	Joback Method
hfus	36.65	kJ/mol	Joback Method
hvap	75.18	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	3.092		Crippen Method
mvol	174.910	ml/mol	McGowan Method
pc	2826.33	kPa	Joback Method
rinpol	2118.00		NIST Webbook
tb	791.81	K	Joback Method
tc	1038.35	K	Joback Method
tf	543.62	K	Joback Method
vc	0.690	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	469.72	J/mol×K	791.81	Joback Method
cpg	480.06	J/mol×K	832.90	Joback Method
cpg	489.35	J/mol×K	873.99	Joback Method
cpg	497.64	J/mol×K	915.08	Joback Method
cpg	504.96	J/mol×K	956.17	Joback Method
cpg	511.34	J/mol×K	997.26	Joback Method
cpg	516.82	J/mol×K	1038.35	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U357586&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357586&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>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>rinpola:</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

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