

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

Inchi:	InChI=1S/C13H5Cl3F2O2/c14-8-4-10(16)12(5-9(8)15)20-13(19)7-2-1-6(17)3-11(7)18/h1
InchiKey:	JLFBQPLLXJNARA-UHFFFAOYSA-N
Formula:	C13H5Cl3F2O2
SMILES:	O=C(Oc1cc(Cl)c(Cl)cc1Cl)c1ccc(F)cc1F
Mol. weight [g/mol]:	337.53

## Physical Properties

Property code	Value	Unit	Source
gf	-424.08	kJ/mol	Joback Method
hf	-580.18	kJ/mol	Joback Method
hfus	37.10	kJ/mol	Joback Method
hvap	73.07	kJ/mol	Joback Method
log10ws	-6.28		Crippen Method
logp	5.144		Crippen Method
mcvol	194.210	ml/mol	McGowan Method
pc	2417.12	kPa	Joback Method
rinpol	2122.00		NIST Webbook
rinpol	2122.00		NIST Webbook
tb	762.22	K	Joback Method
tc	999.55	K	Joback Method
tf	514.81	K	Joback Method
vc	0.754	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	441.53	J/mol×K	762.22	Joback Method
cpg	450.68	J/mol×K	801.77	Joback Method
cpg	458.99	J/mol×K	841.33	Joback Method
cpg	466.48	J/mol×K	880.88	Joback Method
cpg	473.16	J/mol×K	920.44	Joback Method
cpg	479.06	J/mol×K	959.99	Joback Method
cpg	484.18	J/mol×K	999.55	Joback Method

# Sources

<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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=U360563&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360563&amp;Units=SI</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

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