

# 2,5-Difluorophenylacetic acid

<b>Other names:</b>	Benzeneacetic acid, 2,5-difluoro-
<b>Inchi:</b>	InChI=1S/C8H6F2O2/c9-6-1-2-7(10)5(3-6)4-8(11)12/h1-3H,4H2,(H,11,12)
<b>InchiKey:</b>	FKCRTRYQHZZHXES-UHFFFAOYSA-N
<b>Formula:</b>	C8H6F2O2
<b>SMILES:</b>	O=C(O)Cc1cc(F)ccc1F
<b>Mol. weight [g/mol]:</b>	172.13
<b>CAS:</b>	85068-27-5

## Physical Properties

Property code	Value	Unit	Source
gf	-545.73	kJ/mol	Joback Method
hf	-651.89	kJ/mol	Joback Method
hfus	21.59	kJ/mol	Joback Method
hvap	58.79	kJ/mol	Joback Method
log10ws	-2.04		Crippen Method
logp	1.592		Crippen Method
mcvol	110.800	ml/mol	McGowan Method
pc	3810.39	kPa	Joback Method
tb	563.67	K	Joback Method
tc	753.30	K	Joback Method
tf	343.31	K	Joback Method
vc	0.436	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	251.48	J/mol×K	563.67	Joback Method
cpg	259.65	J/mol×K	595.28	Joback Method
cpg	267.37	J/mol×K	626.88	Joback Method
cpg	274.66	J/mol×K	658.49	Joback Method
cpg	281.52	J/mol×K	690.09	Joback Method
cpg	287.98	J/mol×K	721.70	Joback Method
cpg	294.04	J/mol×K	753.30	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=C85068275&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C85068275&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>

# 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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