

# 2,5-Difluorobenzoic acid, 2-ethylhexyl ester

<b>Inchi:</b>	InChI=1S/C15H20F2O2/c1-3-5-6-11(4-2)10-19-15(18)13-9-12(16)7-8-14(13)17/h7-9,11H
<b>InchiKey:</b>	WTUIPCHOXRRUJE-UHFFFAOYSA-N
<b>Formula:</b>	C15H20F2O2
<b>SMILES:</b>	CCCCC(CC)COC(=O)c1cc(F)ccc1F
<b>Mol. weight [g/mol]:</b>	270.31

## Physical Properties

Property code	Value	Unit	Source
gf	-457.41	kJ/mol	Joback Method
hf	-781.64	kJ/mol	Joback Method
hfus	33.29	kJ/mol	Joback Method
hvap	59.72	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.338		Crippen Method
mvol	209.430	ml/mol	McGowan Method
pc	1746.28	kPa	Joback Method
rinpol	1704.00		NIST Webbook
rinpol	1704.00		NIST Webbook
tb	653.63	K	Joback Method
tc	840.96	K	Joback Method
tf	368.61	K	Joback Method
vc	0.822	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	562.18	J/mol×K	653.63	Joback Method
cpg	577.57	J/mol×K	684.85	Joback Method
cpg	592.15	J/mol×K	716.07	Joback Method
cpg	605.95	J/mol×K	747.29	Joback Method
cpg	618.98	J/mol×K	778.51	Joback Method
cpg	631.26	J/mol×K	809.74	Joback Method
cpg	642.80	J/mol×K	840.96	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=U357577&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U357577&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>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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