

# Phthalic acid, 2-(2-fluorophenyl)ethyl isobutyl ester

<b>Inchi:</b>	InChI=1S/C20H21FO4/c1-14(2)13-25-20(23)17-9-5-4-8-16(17)19(22)24-12-11-15-7-3-6-
<b>InchiKey:</b>	VVWUSJKYSYQUMJ-UHFFFAOYSA-N
<b>Formula:</b>	C20H21FO4
<b>SMILES:</b>	CC(C)COC(=O)c1ccccc1C(=O)OCCc1ccccc1F
<b>Mol. weight [g/mol]:</b>	344.38

## Physical Properties

Property code	Value	Unit	Source
gf	-342.01	kJ/mol	Joback Method
hf	-697.00	kJ/mol	Joback Method
hfus	39.99	kJ/mol	Joback Method
hvap	83.10	kJ/mol	Joback Method
log10ws	-5.34		Crippen Method
logp	4.038		Crippen Method
mcvol	261.790	ml/mol	McGowan Method
pc	1664.61	kPa	Joback Method
rinpola	2414.00		NIST Webbook
tb	871.73	K	Joback Method
tc	1092.61	K	Joback Method
tf	522.95	K	Joback Method
vc	1.000	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	788.22	J/mol×K	871.73	Joback Method
cpg	801.95	J/mol×K	908.54	Joback Method
cpg	814.42	J/mol×K	945.36	Joback Method
cpg	825.65	J/mol×K	982.17	Joback Method
cpg	835.69	J/mol×K	1018.98	Joback Method
cpg	844.56	J/mol×K	1055.79	Joback Method
cpg	852.30	J/mol×K	1092.61	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U378050&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U378050&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>mccvol:</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

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