

# 3-Fluorobenzoic acid, 4-biphenyl ester

<b>Inchi:</b>	InChI=1S/C19H13FO2/c20-17-8-4-7-16(13-17)19(21)22-18-11-9-15(10-12-18)14-5-2-1-3
<b>InchiKey:</b>	NEJFXILJSJCKGI-UHFFFAOYSA-N
<b>Formula:</b>	C19H13FO2
<b>SMILES:</b>	O=C(Oc1ccc(-c2ccccc2)cc1)c1cccc(F)c1
<b>Mol. weight [g/mol]:</b>	292.30

## Physical Properties

Property code	Value	Unit	Source
gf	-1.66	kJ/mol	Joback Method
hf	-189.75	kJ/mol	Joback Method
hfus	32.18	kJ/mol	Joback Method
hvap	74.38	kJ/mol	Joback Method
log10ws	-6.49		Crippen Method
logp	4.712		Crippen Method
mcvol	216.500	ml/mol	McGowan Method
pc	2315.84	kPa	Joback Method
rinsol	2530.00		NIST Webbook
tb	799.68	K	Joback Method
tc	1052.32	K	Joback Method
tf	480.94	K	Joback Method
vc	0.818	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	596.32	J/mol×K	799.68	Joback Method
cpg	610.61	J/mol×K	841.79	Joback Method
cpg	623.49	J/mol×K	883.89	Joback Method
cpg	635.07	J/mol×K	926.00	Joback Method
cpg	645.42	J/mol×K	968.10	Joback Method
cpg	654.62	J/mol×K	1010.21	Joback Method
cpg	662.76	J/mol×K	1052.32	Joback Method

# Sources

<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>
<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=U355669&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355669&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>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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