

# 2-Fluorobenzoic acid, 2-naphthyl ester

**Inchi:** InChI=1S/C17H11FO2/c18-16-8-4-3-7-15(16)17(19)20-14-10-9-12-5-1-2-6-13(12)11-14/H  
**InchiKey:** WMVMXMHGEUAPSN-UHFFFAOYSA-N  
**Formula:** C17H11FO2  
**SMILES:** O=C(Oc1ccc2ccccc2c1)c1ccccc1F  
**Mol. weight [g/mol]:** 266.27

## Physical Properties

Property code	Value	Unit	Source
gf	-24.26	kJ/mol	Joback Method
hf	-193.93	kJ/mol	Joback Method
hfus	29.98	kJ/mol	Joback Method
hvap	69.29	kJ/mol	Joback Method
log10ws	-5.69		Crippen Method
logp	4.198		Crippen Method
mcvol	192.620	ml/mol	McGowan Method
pc	2571.50	kPa	Joback Method
rinpola	2238.00		NIST Webbook
tb	746.22	K	Joback Method
tc	992.54	K	Joback Method
tf	464.68	K	Joback Method
vc	0.736	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	509.71	J/mol×K	746.22	Joback Method
cpg	523.29	J/mol×K	787.27	Joback Method
cpg	535.71	J/mol×K	828.33	Joback Method
cpg	547.05	J/mol×K	869.38	Joback Method
cpg	557.42	J/mol×K	910.43	Joback Method
cpg	566.89	J/mol×K	951.48	Joback Method
cpg	575.55	J/mol×K	992.54	Joback Method

# Sources

<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=U307692&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307692&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>
<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>

# 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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