

# 3-Fluoro-4-trifluoromethylbenzoic acid, 2-propylphenyl ester

<b>Inchi:</b>	InChI=1S/C17H14F4O2/c1-2-5-11-6-3-4-7-15(11)23-16(22)12-8-9-13(14(18)10-12)17(19)
<b>InchiKey:</b>	VMRCDXTZDZZKLQ-UHFFFAOYSA-N
<b>Formula:</b>	C17H14F4O2
<b>SMILES:</b>	CCCc1ccccc1OC(=O)c1ccc(C(F)(F)F)c(F)c1
<b>Mol. weight [g/mol]:</b>	326.29

## Physical Properties

Property code	Value	Unit	Source
gf	-722.13	kJ/mol	Joback Method
hf	-993.55	kJ/mol	Joback Method
hfus	34.39	kJ/mol	Joback Method
hvap	64.57	kJ/mol	Joback Method
log10ws	-6.22		Crippen Method
logp	5.016		Crippen Method
mcvol	217.390	ml/mol	McGowan Method
pc	1813.86	kPa	Joback Method
rinqol	1811.00		NIST Webbook
tb	726.80	K	Joback Method
tc	933.63	K	Joback Method
tf	448.69	K	Joback Method
vc	0.857	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	603.27	J/molxK	726.80	Joback Method
cpg	617.00	J/molxK	761.27	Joback Method
cpg	629.74	J/molxK	795.74	Joback Method
cpg	641.53	J/molxK	830.21	Joback Method
cpg	652.43	J/molxK	864.69	Joback Method
cpg	662.48	J/molxK	899.16	Joback Method
cpg	671.73	J/molxK	933.63	Joback Method

# Sources

<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=U360598&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360598&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>hvac:</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>mccol:</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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