

# 2-Fluoro-5-trifluoromethylbenzoic acid, nonyl ester

Inchi:	InChI=1S/C17H22F4O2/c1-2-3-4-5-6-7-8-11-23-16(22)14-12-13(17(19,20)21)9-10-15(14)
InchiKey:	HLPBFRSEHXKADZ-UHFFFAOYSA-N
Formula:	C17H22F4O2
SMILES:	CCCCCCCCCOC(=O)c1cc(C(F)(F)F)ccc1F
Mol. weight [g/mol]:	334.35

## Physical Properties

Property code	Value	Unit	Source
gf	-824.91	kJ/mol	Joback Method
hf	-1218.61	kJ/mol	Joback Method
hfus	40.74	kJ/mol	Joback Method
hvap	61.63	kJ/mol	Joback Method
log10ws	-6.50		Crippen Method
logp	5.752		Crippen Method
mvol	241.150	ml/mol	McGowan Method
pc	1409.07	kPa	Joback Method
rinpol	1825.00		NIST Webbook
rinpol	1825.00		NIST Webbook
tb	695.14	K	Joback Method
tc	873.15	K	Joback Method
tf	409.75	K	Joback Method
vc	0.965	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	688.03	J/molxK	695.14	Joback Method
cpg	703.30	J/molxK	724.81	Joback Method
cpg	717.74	J/molxK	754.48	Joback Method
cpg	731.37	J/molxK	784.15	Joback Method
cpg	744.21	J/molxK	813.81	Joback Method
cpg	756.32	J/molxK	843.48	Joback Method
cpg	767.70	J/molxK	873.15	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=U338963&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U338963&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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