

# 2-Fluorobenzoic acid, 2,2,2-trichloroethyl ester

<b>Inchi:</b>	InChI=1S/C9H6Cl3FO2/c10-9(11,12)5-15-8(14)6-3-1-2-4-7(6)13/h1-4H,5H2
<b>InchiKey:</b>	YZKMLSAFLAZXDK-UHFFFAOYSA-N
<b>Formula:</b>	C9H6Cl3FO2
<b>SMILES:</b>	O=C(OCC(Cl)(Cl)Cl)c1ccccc1F
<b>Mol. weight [g/mol]:</b>	271.50

## Physical Properties

Property code	Value	Unit	Source
gf	-334.00	kJ/mol	Joback Method
hf	-500.91	kJ/mol	Joback Method
hfus	23.76	kJ/mol	Joback Method
hvap	58.76	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	3.353		Crippen Method
mvol	159.840	ml/mol	McGowan Method
pc	2899.85	kPa	Joback Method
rinpol	1627.00		NIST Webbook
tb	621.60	K	Joback Method
tc	853.91	K	Joback Method
tf	395.06	K	Joback Method
vc	0.610	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	338.14	J/molxK	621.60	Joback Method
cpg	347.88	J/molxK	660.32	Joback Method
cpg	356.79	J/molxK	699.04	Joback Method
cpg	364.92	J/molxK	737.76	Joback Method
cpg	372.31	J/molxK	776.48	Joback Method
cpg	379.00	J/molxK	815.19	Joback Method
cpg	385.06	J/molxK	853.91	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U354703&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354703&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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r inpol:</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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