

# 2-Fluorobenzyl trifluoroacetate

<b>Inchi:</b>	InChI=1S/C9H6F4O2/c10-7-4-2-1-3-6(7)5-15-8(14)9(11,12)13/h1-4H,5H2
<b>InchiKey:</b>	LSTCWVISNNEWAM-UHFFFAOYSA-N
<b>Formula:</b>	C9H6F4O2
<b>SMILES:</b>	O=C(OCc1ccccc1F)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	222.14

## Physical Properties

Property code	Value	Unit	Source
gf	-882.64	kJ/mol	Joback Method
hf	-1042.02	kJ/mol	Joback Method
hfus	20.41	kJ/mol	Joback Method
hvap	43.16	kJ/mol	Joback Method
log10ws	-3.04		Crippen Method
logp	2.431		Crippen Method
mcvol	128.430	ml/mol	McGowan Method
pc	2826.33	kPa	Joback Method
rinpol	1003.00		NIST Webbook
rinpol	1003.00		NIST Webbook
tb	507.12	K	Joback Method
tc	695.63	K	Joback Method
tf	307.07	K	Joback Method
vc	0.516	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	292.95	J/mol×K	507.12	Joback Method
cpg	303.76	J/mol×K	538.54	Joback Method
cpg	313.92	J/mol×K	569.96	Joback Method
cpg	323.44	J/mol×K	601.37	Joback Method
cpg	332.35	J/mol×K	632.79	Joback Method
cpg	340.68	J/mol×K	664.21	Joback Method
cpg	348.45	J/mol×K	695.63	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=U373474&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373474&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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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