

# Benzene, 1-fluoro-4-(1-methylethenyl)-

<b>Other names:</b>	4-Fluoro-«alpha»-methylstyrene p-Fluoro-«alpha»-methylstyrene Styrene, p-fluoro-«alpha»-methyl- 1-Fluoro-4-isopropenylbenzene 2-(4-Fluorophenyl)propene 4-FC6H4C(CH3)=CH2
<b>Inchi:</b>	InChI=1S/C9H9F/c1-7(2)8-3-5-9(10)6-4-8/h3-6H,1H2,2H3
<b>InchiKey:</b>	VIXHMBLBLJSGIB-UHFFFAOYSA-N
<b>Formula:</b>	C9H9F
<b>SMILES:</b>	C=C(C)c1ccc(F)cc1
<b>Mol. weight [g/mol]:</b>	136.17
<b>CAS:</b>	350-40-3

## Physical Properties

Property code	Value	Unit	Source
affp	862.60	kJ/mol	NIST Webbook
basg	833.70	kJ/mol	NIST Webbook
gf	12.16	kJ/mol	Joback Method
hf	-84.50	kJ/mol	Joback Method
hfus	13.21	kJ/mol	Joback Method
hvap	37.16	kJ/mol	Joback Method
log10ws	-3.05		Crippen Method
logp	2.859		Crippen Method
mcvol	111.380	ml/mol	McGowan Method
pc	3213.68	kPa	Joback Method
tb	432.81	K	Joback Method
tc	638.60	K	Joback Method
tf	215.00	K	Joback Method
vc	0.431	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	208.22	J/mol×K	432.81	Joback Method

cpg	220.62	J/mol×K	467.11	Joback Method
cpg	232.31	J/mol×K	501.41	Joback Method
cpg	243.32	J/mol×K	535.70	Joback Method
cpg	253.67	J/mol×K	570.00	Joback Method
cpg	263.41	J/mol×K	604.30	Joback Method
cpg	272.55	J/mol×K	638.60	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C350403&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C350403&amp;Units=SI</a>
<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>

## Legend

<b>affp:</b>	Proton affinity
<b>basg:</b>	Gas basicity
<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>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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