

# 3-CF3C6H4C(CH3)=CH2

<b>Inchi:</b>	InChI=1S/C10H9F3/c1-7(2)8-4-3-5-9(6-8)10(11,12)13/h3-6H,1H2,2H3
<b>InchiKey:</b>	GLLSGNKQMPAEQV-UHFFFAOYSA-N
<b>Formula:</b>	C10H9F3
<b>SMILES:</b>	C=C(C)c1cccc(C(F)(F)F)c1
<b>Mol. weight [g/mol]:</b>	186.17
<b>CAS:</b>	368-79-6

## Physical Properties

Property code	Value	Unit	Source
affp	823.70	kJ/mol	NIST Webbook
basg	794.80	kJ/mol	NIST Webbook
gf	-366.20	kJ/mol	Joback Method
hf	-506.11	kJ/mol	Joback Method
hfus	14.54	kJ/mol	Joback Method
hvap	36.45	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.739		Crippen Method
mcvol	129.010	ml/mol	McGowan Method
pc	2681.86	kPa	Joback Method
tb	451.00	K	Joback Method
tc	645.70	K	Joback Method
tf	229.87	K	Joback Method
vc	0.512	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	267.95	J/molxK	451.00	Joback Method
cpg	281.43	J/molxK	483.45	Joback Method
cpg	294.04	J/molxK	515.90	Joback Method
cpg	305.81	J/molxK	548.35	Joback Method
cpg	316.79	J/molxK	580.80	Joback Method
cpg	327.03	J/molxK	613.25	Joback Method
cpg	336.57	J/molxK	645.70	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=C368796&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C368796&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>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

Latest version available from:

<https://www.chemeo.com/cid/43-816-8/3-CF3C6H4C-CH3-CH2.pdf>

Generated by Cheméo on 2024-04-25 21:57:08.370131201 +0000 UTC m=+16371477.290708517.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.