

# Benzene, 1-chloro-4-(1-chloro-2,2,2-trifluoroethyl)

Inchi:	InChI=1S/C8H5Cl2F3/c9-6-3-1-5(2-4-6)7(10)8(11,12)13/h1-4,7H
InchiKey:	AQHYPGOKQLFEB-UHFFFAOYSA-N
Formula:	C8H5Cl2F3
SMILES:	FC(F)(F)C(Cl)c1ccc(Cl)cc1
Mol. weight [g/mol]:	229.03

## Physical Properties

Property code	Value	Unit	Source
gf	-488.63	kJ/mol	Joback Method
hf	-617.23	kJ/mol	Joback Method
hfus	16.82	kJ/mol	Joback Method
hvap	40.97	kJ/mol	Joback Method
log10ws	-4.23		Crippen Method
logp	4.182		Crippen Method
mcvol	129.610	ml/mol	McGowan Method
pc	2915.53	kPa	Joback Method
rinpol	1025.00		NIST Webbook
rinpol	1025.00		NIST Webbook
tb	483.10	K	Joback Method
tc	691.45	K	Joback Method
tf	267.89	K	Joback Method
vc	0.510	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.35	J/mol×K	483.10	Joback Method
cpg	266.06	J/mol×K	517.83	Joback Method
cpg	275.94	J/mol×K	552.55	Joback Method
cpg	285.03	J/mol×K	587.28	Joback Method
cpg	293.40	J/mol×K	622.00	Joback Method
cpg	301.07	J/mol×K	656.73	Joback Method
cpg	308.11	J/mol×K	691.45	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=R515083&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R515083&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>hvp:</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>rinp:</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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<https://www.chemeo.com/cid/16-277-7/Benzene-1-chloro-4-1-chloro-2-2-2-trifluoroethyl.pdf>

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