

# Benzene, 1-chloro-3-(2,2,2-trifluoroethyl)

<b>Inchi:</b>	InChI=1S/C8H6ClF3/c9-7-3-1-2-6(4-7)5-8(10,11)12/h1-4H,5H2
<b>InchiKey:</b>	NUCKCUUXOKSESF-UHFFFAOYSA-N
<b>Formula:</b>	C8H6ClF3
<b>SMILES:</b>	FC(F)(F)Cc1cccc(Cl)c1
<b>Mol. weight [g/mol]:</b>	194.58

## Physical Properties

Property code	Value	Unit	Source
gf	-474.26	kJ/mol	Joback Method
hf	-596.21	kJ/mol	Joback Method
hfus	16.15	kJ/mol	Joback Method
hvap	36.98	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.445		Crippen Method
mcvol	117.370	ml/mol	McGowan Method
pc	3009.03	kPa	Joback Method
rinpol	978.00		NIST Webbook
rinpol	978.00		NIST Webbook
rinpol	978.00		NIST Webbook
tb	446.11	K	Joback Method
tc	643.63	K	Joback Method
tf	252.97	K	Joback Method
vc	0.468	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	230.05	J/molxK	446.11	Joback Method
cpg	241.23	J/molxK	479.03	Joback Method
cpg	251.64	J/molxK	511.95	Joback Method
cpg	261.33	J/molxK	544.87	Joback Method
cpg	270.32	J/molxK	577.79	Joback Method
cpg	278.66	J/molxK	610.71	Joback Method
cpg	286.38	J/molxK	643.63	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=R345354&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R345354&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>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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