

# Benzene, (1-bromo-2,2,2-trifluoroethyl)

<b>Inchi:</b>	InChI=1S/C8H6BrF3/c9-7(8(10,11)12)6-4-2-1-3-5-6/h1-5,7H
<b>InchiKey:</b>	IRICHAOGAOFEQI-UHFFFAOYSA-N
<b>Formula:</b>	C8H6BrF3
<b>SMILES:</b>	FC(F)(F)C(Br)c1ccccc1
<b>Mol. weight [g/mol]:</b>	239.03

## Physical Properties

Property code	Value	Unit	Source
gf	-440.82	kJ/mol	Joback Method
hf	-547.95	kJ/mol	Joback Method
hfus	14.10	kJ/mol	Joback Method
hvap	37.98	kJ/mol	Joback Method
log10ws	-3.83		Crippen Method
logp	3.685		Crippen Method
mcvol	122.630	ml/mol	McGowan Method
pc	3484.76	kPa	Joback Method
rinpol	1030.00		NIST Webbook
rinpol	1030.00		NIST Webbook
rinpol	1023.00		NIST Webbook
tb	469.42	K	Joback Method
tc	681.31	K	Joback Method
tf	255.33	K	Joback Method
vc	0.474	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	241.21	J/molxK	469.42	Joback Method
cpg	253.08	J/molxK	504.73	Joback Method
cpg	263.98	J/molxK	540.05	Joback Method
cpg	273.98	J/molxK	575.36	Joback Method
cpg	283.14	J/molxK	610.68	Joback Method
cpg	291.51	J/molxK	645.99	Joback Method
cpg	299.17	J/molxK	681.31	Joback Method

# Sources

<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=R345314&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R345314&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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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