

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

<b>Inchi:</b>	InChI=1S/C8H8BrF/c9-8(6-10)7-4-2-1-3-5-7/h1-5,8H,6H2
<b>InchiKey:</b>	AZWJTBRXGIPLHX-UHFFFAOYSA-N
<b>Formula:</b>	C8H8BrF
<b>SMILES:</b>	FCC(Br)c1ccccc1
<b>Mol. weight [g/mol]:</b>	203.05

## Physical Properties

Property code	Value	Unit	Source
gf	-54.04	kJ/mol	Joback Method
hf	-146.98	kJ/mol	Joback Method
hfus	15.36	kJ/mol	Joback Method
hvap	40.91	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	3.092		Crippen Method
mcvol	119.090	ml/mol	McGowan Method
pc	3796.32	kPa	Joback Method
rinsol	1174.00		NIST Webbook
tb	474.11	K	Joback Method
tc	695.43	K	Joback Method
tf	251.73	K	Joback Method
vc	0.450	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	221.44	J/mol×K	474.11	Joback Method
cpg	233.37	J/mol×K	511.00	Joback Method
cpg	244.46	J/mol×K	547.88	Joback Method
cpg	254.78	J/mol×K	584.77	Joback Method
cpg	264.35	J/mol×K	621.66	Joback Method
cpg	273.22	J/mol×K	658.54	Joback Method
cpg	281.44	J/mol×K	695.43	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=R515038&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R515038&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>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>rinpola:</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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