

# 5-Fluoro-1,2,3-tribromobenzene

<b>Other names:</b>	Benzene, 1,2,3-tribromo-5-fluoro-
<b>Inchi:</b>	InChI=1S/C6H2Br3F/c7-4-1-3(10)2-5(8)6(4)9/h1-2H
<b>InchiKey:</b>	FMIFEFSTHLAERU-UHFFFAOYSA-N
<b>Formula:</b>	C6H2Br3F
<b>SMILES:</b>	Fc1cc(Br)c(Br)c(Br)c1
<b>Mol. weight [g/mol]:</b>	332.79
<b>CAS:</b>	576-82-9

## Physical Properties

Property code	Value	Unit	Source
gf	-68.69	kJ/mol	Joback Method
hf	-82.17	kJ/mol	Joback Method
hfus	23.11	kJ/mol	Joback Method
hvap	51.70	kJ/mol	Joback Method
log10ws	-5.29		Crippen Method
logp	4.113		Crippen Method
mcvol	125.910	ml/mol	McGowan Method
pc	5519.63	kPa	Joback Method
tb	576.05	K	Joback Method
tc	836.41	K	Joback Method
tf	401.35	K	Joback Method
vc	0.468	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	194.34	J/molxK	576.05	Joback Method
cpg	200.25	J/molxK	619.44	Joback Method
cpg	205.61	J/molxK	662.84	Joback Method
cpg	210.50	J/molxK	706.23	Joback Method
cpg	214.97	J/molxK	749.63	Joback Method
cpg	219.08	J/molxK	793.02	Joback Method
cpg	222.88	J/molxK	836.41	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=C576829&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C576829&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.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>

# 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>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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