

# 1-Bromo-3-fluoropropane

<b>Other names:</b>	Propane, 1-bromo-3-fluoro-
<b>Inchi:</b>	InChI=1S/C3H6BrF/c4-2-1-3-5/h1-3H2
<b>InchiKey:</b>	VNHWPVLQRKKKRY-UHFFFAOYSA-N
<b>Formula:</b>	C3H6BrF
<b>SMILES:</b>	FCCCBBr
<b>Mol. weight [g/mol]:</b>	140.98
<b>CAS:</b>	352-91-0

## Physical Properties

Property code	Value	Unit	Source
gf	-206.11	kJ/mol	Joback Method
hf	-275.03	kJ/mol	Joback Method
hfus	11.89	kJ/mol	Joback Method
hvap	27.89	kJ/mol	Joback Method
ie	10.38	eV	NIST Webbook
log10ws	-1.36		Crippen Method
logp	1.741		Crippen Method
mcvol	72.400	ml/mol	McGowan Method
pc	4553.06	kPa	Joback Method
tb	374.60	K	NIST Webbook
tc	508.58	K	Joback Method
tf	183.96	K	Joback Method
vc	0.283	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	104.54	J/molxK	333.47	Joback Method
cpg	110.49	J/molxK	362.66	Joback Method
cpg	116.18	J/molxK	391.84	Joback Method
cpg	121.60	J/molxK	421.03	Joback Method
cpg	126.78	J/molxK	450.21	Joback Method
cpg	131.72	J/molxK	479.40	Joback Method
cpg	136.43	J/molxK	508.58	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=C352910&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C352910&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>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mconvol:</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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