

# 3-Fluorobenzhydrazide

<b>Other names:</b>	Benzoic acid, 3-fluoro-, hydrazide 3-fluorobenzoic hydrazide
<b>Inchi:</b>	InChI=1S/C7H7FN2O/c8-6-3-1-2-5(4-6)7(11)10-9/h1-4H,9H2,(H,10,11)
<b>InchiKey:</b>	UUISEXNUHLZEDB-UHFFFAOYSA-N
<b>Formula:</b>	C7H7FN2O
<b>SMILES:</b>	<chem>NNC(=O)c1cccc(F)c1</chem>
<b>Mol. weight [g/mol]:</b>	154.14
<b>CAS:</b>	499-55-8

## Physical Properties

Property code	Value	Unit	Source
gf	-57.05	kJ/mol	Joback Method
hf	-184.18	kJ/mol	Joback Method
hfus	22.51	kJ/mol	Joback Method
h vap	57.12	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	0.429		Crippen Method
m cvol	109.030	ml/mol	McGowan Method
pc	4528.58	kPa	Joback Method
tb	567.06	K	Joback Method
tc	792.48	K	Joback Method
tf	394.03	K	Joback Method
vc	0.407	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	249.98	J/molxK	567.06	Joback Method
cpg	259.91	J/molxK	604.63	Joback Method
cpg	269.15	J/molxK	642.20	Joback Method
cpg	277.72	J/molxK	679.77	Joback Method
cpg	285.65	J/molxK	717.34	Joback Method
cpg	292.98	J/molxK	754.91	Joback Method
cpg	299.72	J/molxK	792.48	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=C499558&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C499558&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>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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