

# 3-Nitrophenol, trifluoroacetate

<b>Inchi:</b>	InChI=1S/C8H4F3NO4/c9-8(10,11)7(13)16-6-3-1-2-5(4-6)12(14)15/h1-4H
<b>InchiKey:</b>	GLZMEVLFQVYGPG-UHFFFAOYSA-N
<b>Formula:</b>	C8H4F3NO4
<b>SMILES:</b>	O=C(Oc1cccc([N+](=O)[O-])c1)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	235.12

## Physical Properties

Property code	Value	Unit	Source
gf	-660.70	kJ/mol	Joback Method
hf	-836.03	kJ/mol	Joback Method
hfus	26.10	kJ/mol	Joback Method
hvap	58.34	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	2.062		Crippen Method
mvol	129.990	ml/mol	McGowan Method
pc	3348.98	kPa	Joback Method
rinpol	1225.00		NIST Webbook
rinpol	1225.00		NIST Webbook
tb	636.81	K	Joback Method
tc	864.12	K	Joback Method
tf	438.82	K	Joback Method
vc	0.524	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.53	J/mol×K	636.81	Joback Method
cpg	335.87	J/mol×K	674.70	Joback Method
cpg	344.39	J/mol×K	712.58	Joback Method
cpg	352.14	J/mol×K	750.47	Joback Method
cpg	359.16	J/mol×K	788.35	Joback Method
cpg	365.50	J/mol×K	826.24	Joback Method
cpg	371.18	J/mol×K	864.12	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=U375688&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U375688&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>
<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>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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