

# Methyl N-trifluoroacetylaminobenzoate

<b>Inchi:</b>	InChI=1S/C10H8F3NO3/c1-17-8(15)6-2-4-7(5-3-6)14-9(16)10(11,12)13/h2-5H,1H3,(H,14)
<b>InchiKey:</b>	MDDVOSSRTNAXHJ-UHFFFAOYSA-N
<b>Formula:</b>	C10H8F3NO3
<b>SMILES:</b>	COC(=O)c1ccc(NC(=O)C(F)(F)F)cc1
<b>Mol. weight [g/mol]:</b>	247.17

## Physical Properties

Property code	Value	Unit	Source
gf	-718.94	kJ/mol	Joback Method
hf	-925.66	kJ/mol	Joback Method
hfus	26.62	kJ/mol	Joback Method
hvap	59.38	kJ/mol	Joback Method
log10ws	-2.58		Crippen Method
logp	1.974		Crippen Method
mcvol	152.300	ml/mol	McGowan Method
pc	2902.98	kPa	Joback Method
rinpola	1540.00		NIST Webbook
rinpola	1540.00		NIST Webbook
tb	634.77	K	Joback Method
tc	838.61	K	Joback Method
tf	420.34	K	Joback Method
vc	0.596	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	390.09	J/mol×K	634.77	Joback Method
cpg	400.83	J/mol×K	668.74	Joback Method
cpg	410.79	J/mol×K	702.72	Joback Method
cpg	420.01	J/mol×K	736.69	Joback Method
cpg	428.52	J/mol×K	770.67	Joback Method
cpg	436.34	J/mol×K	804.64	Joback Method
cpg	443.53	J/mol×K	838.61	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=U374608&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374608&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>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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