

# Acetamide, 2,2,2-trifluoro-N-phenyl-

<b>Other names:</b>	Acetanilide, 2,2,2-trifluoro- «alpha», «alpha», «alpha»-Trifluoroacetanilide 2,2,2-Trifluoroacetanilide Alpha,alpha,alpha-trifluoroacetanilide Trifluoroacetamide, N-phenyl 2,2,2-trifluoro-N-phenylacetamide
<b>Inchi:</b>	InChI=1S/C8H6F3NO/c9-8(10,11)7(13)12-6-4-2-1-3-5-6/h1-5H,(H,12,13)
<b>InchiKey:</b>	SAPQIENQEZURNZ-UHFFFAOYSA-N
<b>Formula:</b>	C8H6F3NO
<b>SMILES:</b>	O=C(Nc1ccccc1)C(F)(F)F
<b>Mol. weight [g/mol]:</b>	189.13
<b>CAS:</b>	404-24-0

## Physical Properties

Property code	Value	Unit	Source
gf	-492.23	kJ/mol	Joback Method
hf	-628.11	kJ/mol	Joback Method
hfus	19.04	kJ/mol	Joback Method
hvap	45.11	kJ/mol	Joback Method
ie	8.93 ± 0.05	eV	NIST Webbook
log10ws	-2.34		Crippen Method
logp	2.187		Crippen Method
mcvol	116.680	ml/mol	McGowan Method
pc	3480.65	kPa	Joback Method
rinpol	193.85		NIST Webbook
tb	507.74	K	Joback Method
tc	710.53	K	Joback Method
tf	313.12	K	Joback Method
vc	0.460	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	263.08	J/mol×K	507.74	Joback Method

cpg	274.29	J/mol×K	541.54	Joback Method
cpg	284.65	J/mol×K	575.34	Joback Method
cpg	294.22	J/mol×K	609.13	Joback Method
cpg	303.03	J/mol×K	642.93	Joback Method
cpg	311.14	J/mol×K	676.73	Joback Method
cpg	318.59	J/mol×K	710.53	Joback Method

## Sources

<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>
<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=C404240&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C404240&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>

## 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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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