

# Phenethylamine, 2,5-dimethoxy-4-propylthio, N-acetyl, trifluoroacetoxy-M

Inchi:	InChI=1S/C17H22F3NO5S/c1-5-8-27-15-12(24-3)9-11(6-7-21-10(2)22)13(25-4)14(15)26
InchiKey:	FQGGLPUEGZRAJX-UHFFFAOYSA-N
Formula:	C17H22F3NO5S
SMILES:	CCCS1c(OC)cc(CCNC(C)=O)c(OC)c1OC(=O)C(F)(F)F
Mol. weight [g/mol]:	409.42

## Physical Properties

Property code	Value	Unit	Source
gf	-865.77	kJ/mol	Joback Method
hf	-1327.12	kJ/mol	Joback Method
hfus	50.09	kJ/mol	Joback Method
hvap	88.59	kJ/mol	Joback Method
log10ws	-4.87		Crippen Method
logp	3.352		Crippen Method
mvol	279.020	ml/mol	McGowan Method
pc	1490.74	kPa	Joback Method
rinpol	2350.00		NIST Webbook
rinpol	2350.00		NIST Webbook
tb	923.49	K	Joback Method
tc	1136.13	K	Joback Method
tf	615.65	K	Joback Method
vc	1.077	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	862.50	J/molxK	923.49	Joback Method
cpg	873.84	J/molxK	958.93	Joback Method
cpg	883.90	J/molxK	994.37	Joback Method
cpg	892.70	J/molxK	1029.81	Joback Method
cpg	900.23	J/molxK	1065.25	Joback Method
cpg	906.50	J/molxK	1100.69	Joback Method
cpg	911.50	J/molxK	1136.13	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=R418625&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R418625&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>

# 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>hvp:</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>rinp:</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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