

# Fenoxanil, N-trifluoroacetyl-

<b>Inchi:</b>	InChI=1S/C17H17Cl2F3N2O3/c1-9(2)16(4,8-23)24(15(26)17(20,21)22)14(25)10(3)27-13
<b>InchiKey:</b>	WUHAEAWFJHJBSI-UHFFFAOYSA-N
<b>Formula:</b>	C17H17Cl2F3N2O3
<b>SMILES:</b>	CC(Oc1ccc(Cl)cc1Cl)C(=O)N(C(=O)C(F)(F)F)C(C)(C#N)C(C)C
<b>Mol. weight [g/mol]:</b>	425.23

## Physical Properties

Property code	Value	Unit	Source
gf	-540.96	kJ/mol	Joback Method
hf	-953.46	kJ/mol	Joback Method
hfus	37.72	kJ/mol	Joback Method
hvap	88.41	kJ/mol	Joback Method
log10ws	-5.78		Crippen Method
logp	4.616		Crippen Method
mcvol	276.790	ml/mol	McGowan Method
pc	1454.57	kPa	Joback Method
rinsol	2059.00		NIST Webbook
tb	935.01	K	Joback Method
tc	1158.56	K	Joback Method
tf	588.81	K	Joback Method
vc	1.071	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	807.91	J/mol×K	935.01	Joback Method
cpg	817.77	J/mol×K	972.27	Joback Method
cpg	826.82	J/mol×K	1009.53	Joback Method
cpg	835.17	J/mol×K	1046.79	Joback Method
cpg	842.91	J/mol×K	1084.04	Joback Method
cpg	850.13	J/mol×K	1121.30	Joback Method
cpg	856.92	J/mol×K	1158.56	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U374337&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374337&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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>

# 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>mccvol:</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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