

# Benorilate

**Other names:**

Benzoic acid, 2-(acetyloxy)-, 4-(acetamino)phenyl ester  
Salicylic acid, acetate, ester with 4'-hydroxyacetanilide  
4'-(Acetamido)phenyl-2-acetoxybenzoate  
p-Acetamidophenyl acetylsalicylate  
2-Acetoxy-4'-(acetamino)phenylbenzoate  
p-N-Acetylaminophenylacetylsalicylate  
2-(Acetyloxy)benzoic acid 4-(acetamino)phenyl ester  
Aspirin acetaminophen ester  
Benoral  
Benorilato  
Benortan  
Benorylate  
Fenasparate  
Salipran  
TO 125  
WIN 11450  
4-Acetamidophenyl salicylate acetate  
Fenasprate  
Quinexin

**Inchi:**

InChI=1S/C17H15NO5/c1-11(19)18-13-7-9-14(10-8-13)23-17(21)15-5-3-4-6-16(15)22-12

**InchiKey:**

FEJKLNWAOXSSNR-UHFFFAOYSA-N

**Formula:**

C17H15NO5

**SMILES:**

CC(=O)Nc1ccc(OC(=O)c2ccccc2OC(C)=O)cc1

**Mol. weight [g/mol]:**

313.30

**CAS:**

5003-48-5

## Physical Properties

Property code	Value	Unit	Source
gf	-209.55	kJ/mol	Joback Method
hf	-492.80	kJ/mol	Joback Method
hfus	39.36	kJ/mol	Joback Method
hvap	90.81	kJ/mol	Joback Method
log10ws	-4.07		Crippen Method
logp	2.789		Crippen Method
mcvol	229.300	ml/mol	McGowan Method
pc	2379.54	kPa	Joback Method
tb	908.30	K	Joback Method

tc	1145.45	K	Joback Method
tf	606.14	K	Joback Method
vc	0.861	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	671.83	J/mol×K	908.30	Joback Method
cpg	682.32	J/mol×K	947.82	Joback Method
cpg	691.51	J/mol×K	987.35	Joback Method
cpg	699.45	J/mol×K	1026.87	Joback Method
cpg	706.15	J/mol×K	1066.40	Joback Method
cpg	711.63	J/mol×K	1105.92	Joback Method
cpg	715.92	J/mol×K	1145.45	Joback Method

## Sources

<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=C5003485&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5003485&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.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>

## 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>tb:</b>	Normal Boiling Point Temperature

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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