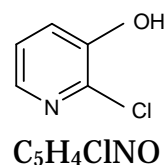


Downstream products of 3-hydroxypyridine

Product Name	CAS No.	EINECS
2-Chloro-3-hydroxypyridine	6636-78-8	229-635-3
2-Bromo-3-hydroxypyridine	6602-32-0	229-547-5
3-Hydroxy-2-nitropyridine	15128-82-2	239-191-2
3-Methoxy-2-nitropyridine	20265-37-6	
3-Piperidinol	6859-99-0	229-957-4
Trifloxysulfuron	145099-21-4	
2-Mercapto-3-benzoyloxy pyridine	1175008-62-4	
2-Chloro-3-(2,2,2-trifluoroethoxy)pyridine		
2-Aminosulfonyl-3-(2,2,2-trifluoroethoxy)pyridine		
Mestimon	101-26-8	202-929-9
Benzpyrinium bromide	587-46-2	
Distigmine bromide	15876-67-2	

2-Chloro-3-hydroxypyridine

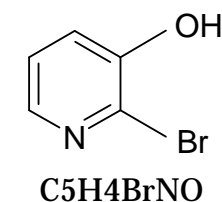
CAS No. : 6636-78-8
EINECS : 229-635-3
Synonyms : 2-Chloro-3-pyridinol
Structure :



Molecular weight : 129.54
Melting range : 168-172°C
Uses : Intermediate of trifloxysulfuron and many other chemicals.

2-Bromo-3-hydroxypyridine

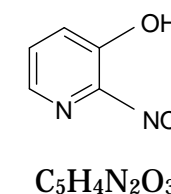
CAS No. : 6602-32-0
EINECS : 229-547-5
Synonyms : 2-Bromo-3-pyridinol
Structure :



Molecular weight : 174.00
Melting range : 179-185 °C
Uses : Intermediate

3-Hydroxy-2-nitropyridine

CAS No. : 15128-82-2
EINECS : 239-191-2
Synonyms : 2-Nitro-3-pyridinol
Structure :



Molecular weight : 140.09
Melting range : 67-72 °C
Uses : Intermediate

3-Methoxy-2-nitropyridine

CAS No. : 20265-37-6
Synonyms : 2-Nitro-3-methoxy pyridine

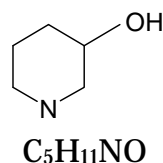
Structure :



Molecular weight : 154.12
Meilting range : 73-76 °C
Uses : Intermediate

3-Piperidinol

CAS No. : 6859-99-0
EINECS : 229-957-4
Synonyms : 3-Hydroxypiperidine
Structure :

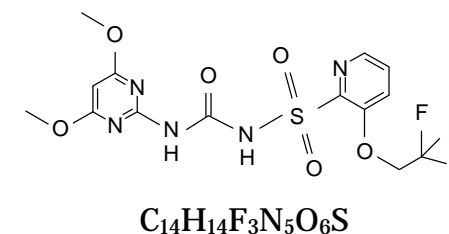


Molecular weight : 101.15
Uses : Intermediate
Synthesis : 3-hydroxypyridine is hydrogenated to 3-piperidinol under the catalysis of Ruthenium in aqueous solution

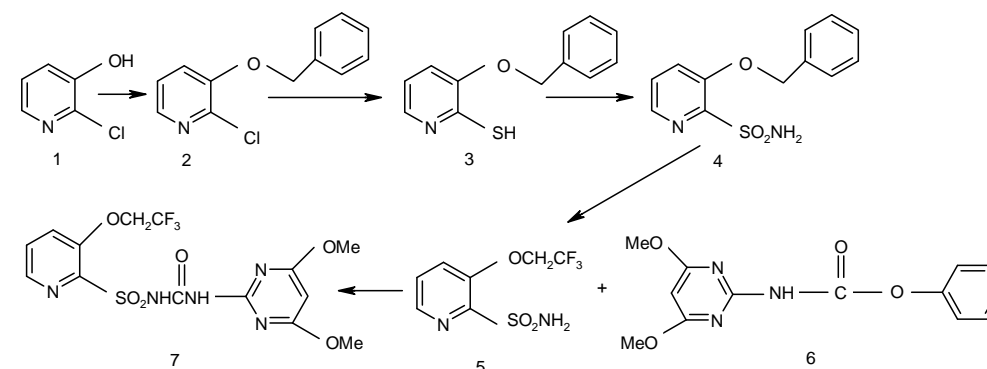
Trifloxysulfuron

CAS No. : 145099-21-4
Synonyms : 1-(4,6-dimethoxypyrimidin-2-yl)-3-[3-(2,2,2-trifluoroethoxy)-2-pyridylsulfonyl]urea;
 N-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-3-(2,2,2-trifluoroethoxy)-2-pyridinesulfonamide

Structure :



Molecular weight : 437.35
Meilting range : 195 °C
Uses : Herbicide
Synthesis:

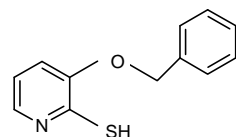


Name	CAS#
1 2-chloro-3-hydroxypyridine	6636-78-8
2 2-chloro-3-benzyloxy pyridine	
3 2-Mercapto-3-benzyloxy pyridine	1175008-62-4
4 2-aminosulfonyl-3-benzyloxy pyridine	
5 2-Aminosulfonyl-3-(2,2,2-trifluoroethoxy)pyridine	
6 4,6-Dimethoxy-2-(phenoxycarbonyl)Aminopyrimidine	89392-03-0
7 Trifloxysulfuron	145099-21-4

2-mercapto-3-benzyloxy pyridine

CAS No. : 1175008-62-4

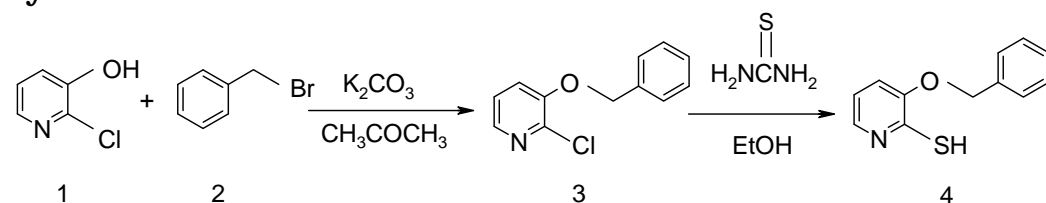
Structure :



$C_{13}H_{11}NOS$

Uses : Intermediate of herbicide trifloxysulfuron

Synthesis:

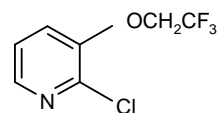


	Name	CAS#
1	2-chloro-3-hydroxypyridine	6636-78-8
2	Benzyl bromide	
3	2-chloro-3-benzyloxy pyridine	
4	2-Mercapto-3-benzyloxy pyridine	1175008-62-4

2-chloro-3-hydroxypyridine (1) is treated with 1.0 equiv. of benzyl bromide (2) in acetone to form 2-chloro-3-benzyloxy pyridine (3) in 97% yield. The compound 3 then reacts with 1.2 equiv. of thiourea in anhydrous ethanol to produce 2-mercapto-3-benzyloxy pyridine (4) in 77.95% yield.

2-chloro-3-(2,2,2-trifluoroethoxy)pyridine

Structure :



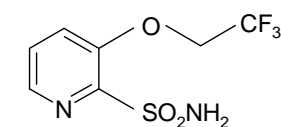
$C_7H_5ClF_3NO$

Uses : Fungicidal activity

Synthesis : Synthesized by the reaction of 2-chloro-3-hydroxypyridine with 2-chloro-1,1,1-trifluoroethane

2-Aminosulfonyl-3-(2,2,2-trifluoroethoxy)pyridine

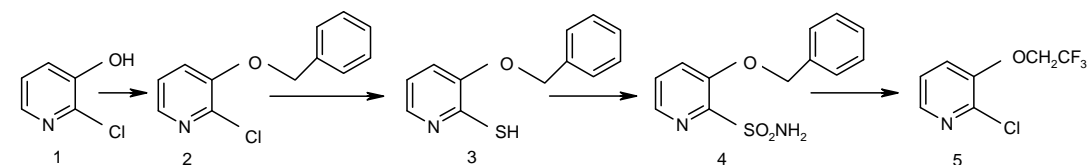
Structure :



$C_7H_7F_3N_2O_3S$

Uses : Intermediate of Trifloxysulfuron

Synthesis:

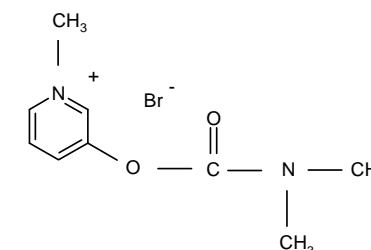


	Name	CAS#
1	2-chloro-3-hydroxypyridine	6636-78-8
2	2-chloro-3-benzyloxy pyridine	
3	2-Mercapto-3-benzyloxy pyridine	1175008-62-4
4	2-aminosulfonyl-3-benzyloxy pyridine	
5	2-Aminosulfonyl-3-(2,2,2-trifluoroethoxy)pyridine	

Mestinon

CAS No. : 101-26-8
EINECS : 202-929-9
Synonyms : Pyridostigmine bromide;
 3-[[(Dimethylamino) carbonyl]oxy]-1-methylpyridinium
 bromide

Structure :



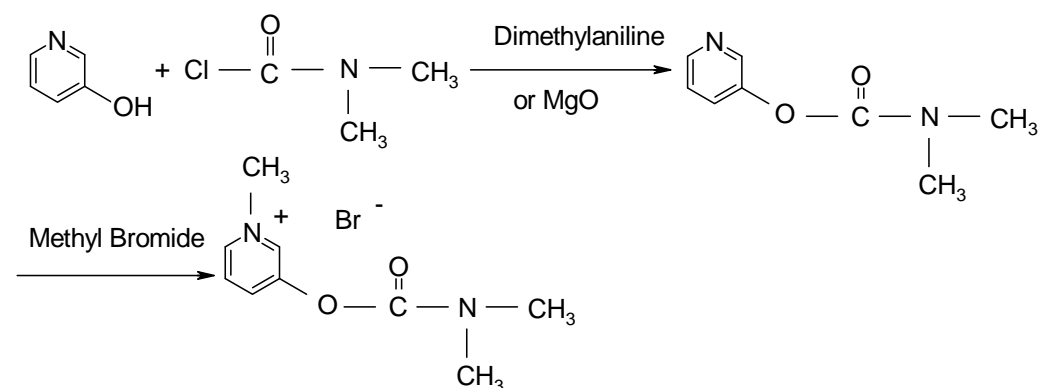
$C_9H_{13}BrN_2O_2$

Molecular : 261.12

weight

Uses : Cholinesterase inhibitor

Synthesis:



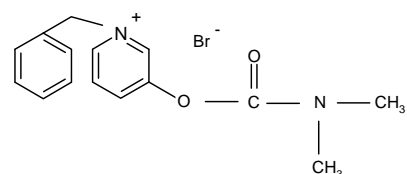
Pyridostigmine bromide is prepared by condensing 3-pyridinol with dimethylcarbamoyl chloride in the presence of a suitable basic catalyst such as dimethylaniline or magnesium oxide. The resulting ester, 3-pyridyl dimethylcarbamate, is isolated, dissolved in a suitable organic solvent, and quaternized with methyl bromide.

Benzpyrinium bromide

CAS No. : 587-46-2

Synonyms : 1-Benzyl-3-(dimethylcarbamoyloxy)pyridinium bromide; Benzostigmine; Benzstigminum bromidum; Stigmenene bromide; Stigmonene bromide

Structure :



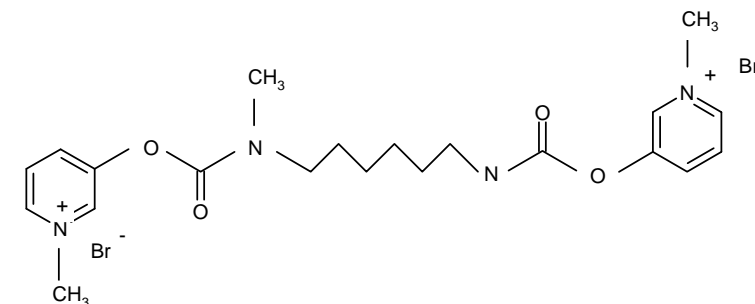
Uses : cholinergic

Distigmine bromide

CAS No. : 15876-67-2

Synonyms : Ubretid

Structure :



Uses : Cholinesterase inhibitor