

Downstream product 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-benzyloxypyridine	1175008-62-4	
2-Chloro-3-(2,2,2-trifluoroethoxy)pyridine		
2-Aminosulfonyl-3-(2,2,2-trifluoroethoxy)pyridine		
Mestinon	101-26-8	202-929-9
Benzpyrinium bromide	587-46-2	
Distigmine bromide	15876-67-2	

2-Chloro-3-hydroxypyridine

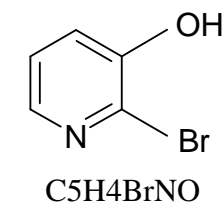
CAS No. : 6636-78-8
EINECS : 229-635-3
Synonyms : 2-Chloro-3-pyridinol
Structure :



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

2-Bromo-3-hydroxypyridine

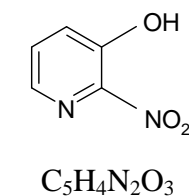
CAS No. : 6602-32-0
EINECS : 229-547-5
Synonyms : 2-Bromo-3-pyridinol
Structure :



Molecular weight : 174.00
Meilting 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
Meilting range : 67-72 °C
Uses : Intermediate

3-Methoxy-2-nitropyridine

CAS No. : 20265-37-6

Synonyms : 2-Nitro-3-methoxypyridine



Molecular weight : 154.12

Melting range : 73-76 °C

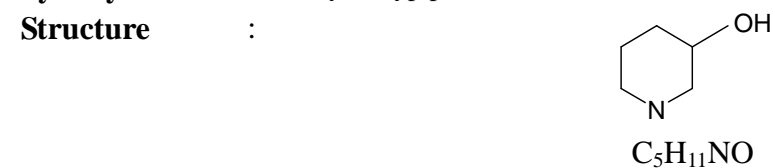
Uses : Intermediate

3-Piperidinol

CAS No. : 6859-99-0

EINECS : 229-957-4

Synonyms : 3-Hydroxypiperidine



Molecular weight : 101.15

Uses : Intermediate

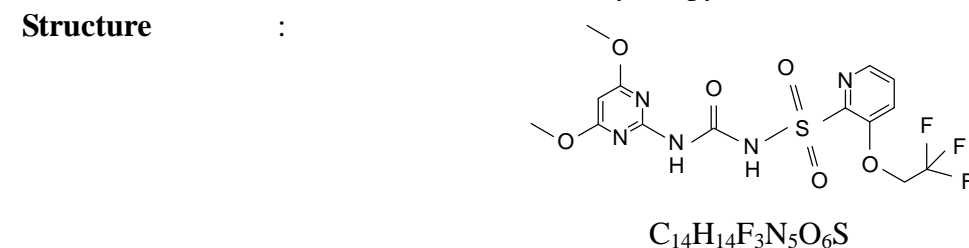
Synthesis : 3-hydroxypyridine is hydrogenated to 3-piperidinol under the catalysis of Ruthenium in aqueous solution

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

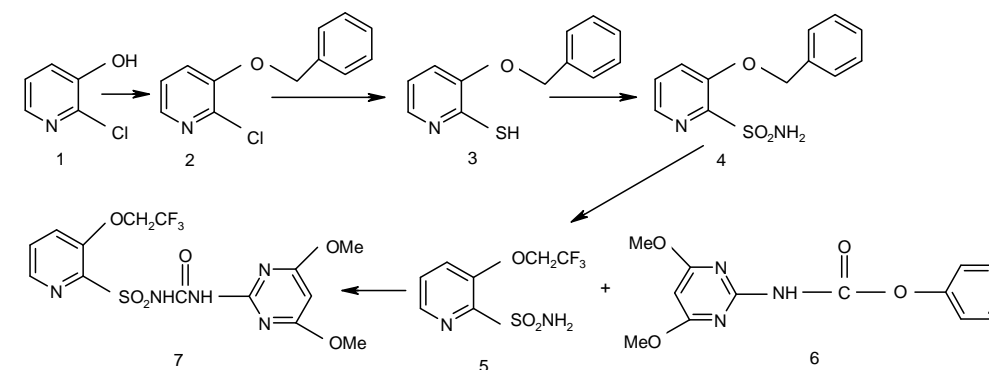


Molecular weight : 437.35

Melting range : 195 °C

Uses : Herbicide

Synthesis:



Name

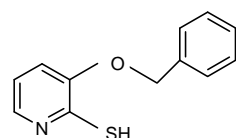
CAS#

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

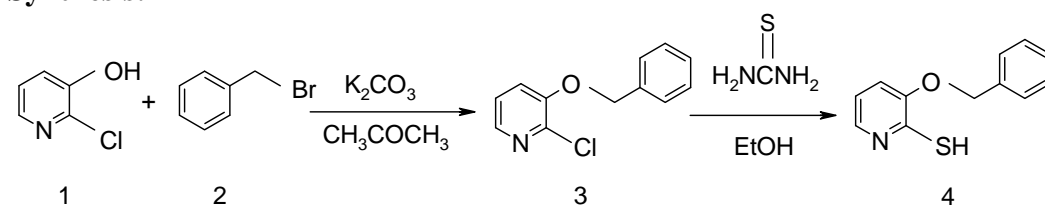
Structure :



$C_{13}H_{11}NOS$

Uses : Intermediate of herbicide trifloxysulfuron

Synthesis:

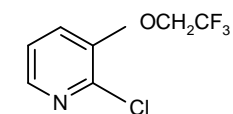


Name	CAS#
1 2-chloro-3-hydroxypyridine	6636-78-8
2 Benzyl bromide	
3 2-chloro-3-benzyloxy pyridine	
4 2-Mercapto-3-benzyloxy pyridine	1175008-62-4

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 :



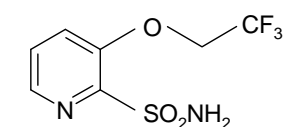
$C_7H_5ClF_3NO$

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

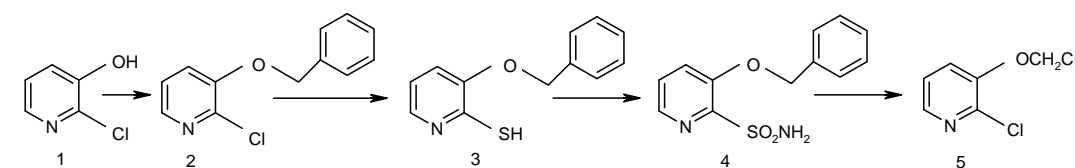
Structure :



$C_7H_7F_3N_2O_3S$

Uses : Intermediate of Trifloxysulfuron

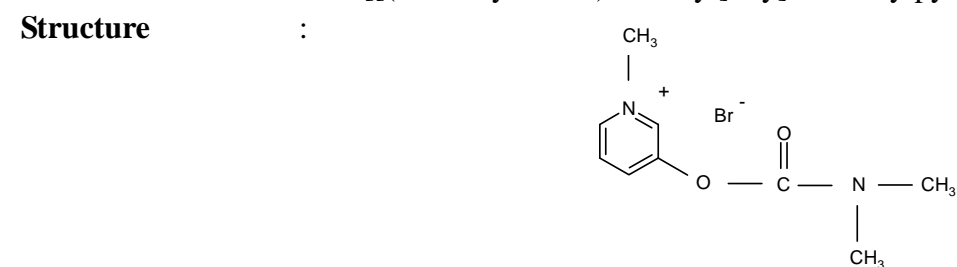
Synthesis:



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	

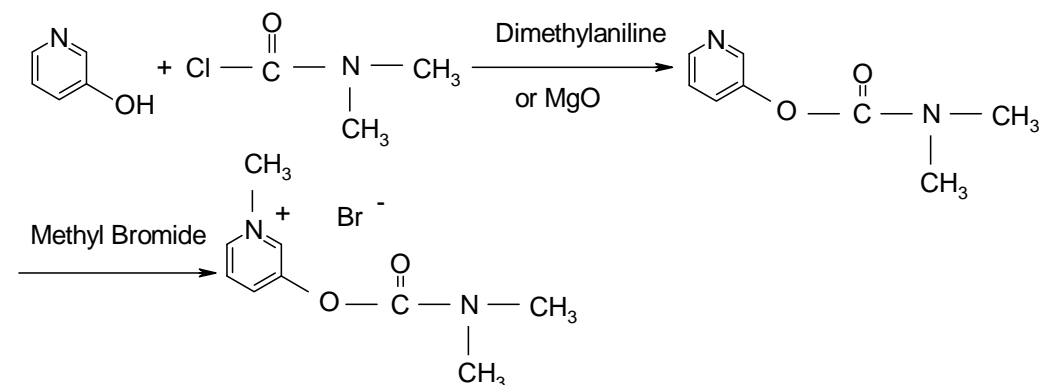
Mestinon

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



Molecular weight : 261.12
Uses : Cholinesterase inhibitor

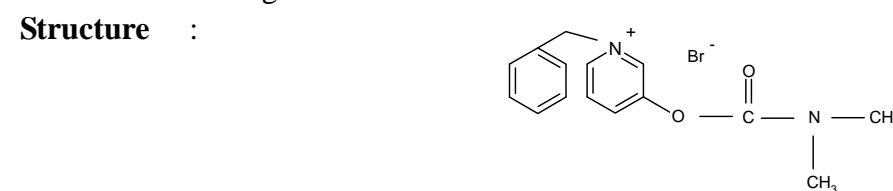
Synthesis:



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

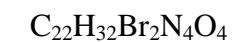
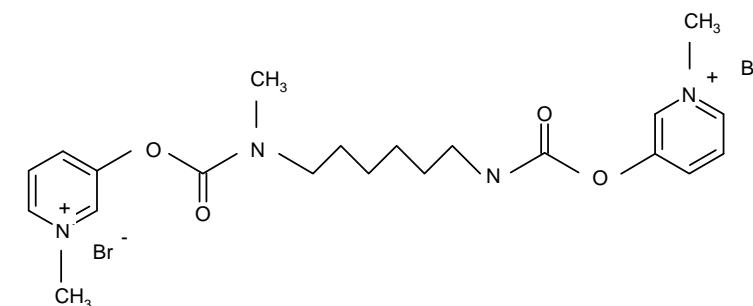
CAS No. : 587-46-2
Synonyms : 1-Benzyl-3-(dimethylcarbamoyloxy)pyridinium bromide;
 Benzostigmine; Benzstigminum bromidum; Stigmenene bromide;
 Stigmonene bromide



Uses : cholinergic

Distigmine bromide

CAS No. : 15876-67-2
Synonyms : Ubretid
Structure :



Uses : Cholinesterase inhibitor