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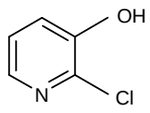
Downstream products of 3-hydroxypyridine

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-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 :

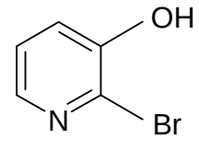


C_5H_4ClNO

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 :

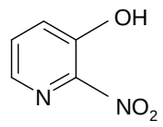


C_5H_4BrNO

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 :



$C_5H_4N_2O_3$

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

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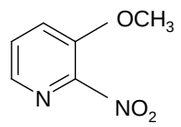
Structure :

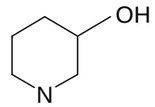


$C_6H_6N_2O_3$

Molecular weight : 154.12
Meilting range : 73-76 ºC
Uses : Intermediate

3-Piperidinol

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



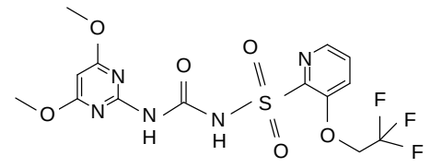
$C_5H_{11}NO$

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

Trifloxysulfuron

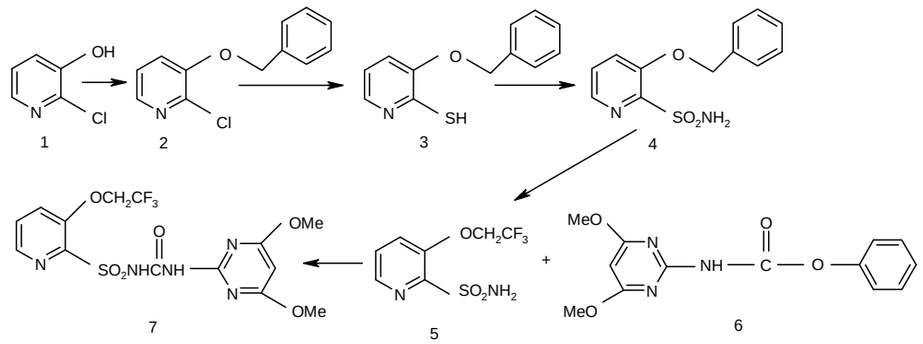
CAS No. : 145099-21-4
Synonyms : 1-(4,6-dimethoxypyrimidin-2-yl)-3-[3-(2,2,2-trifluoroethoxy) -2-pyridylsulfonyl]urea;
N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl] -3-(2,2,2-trifluoroethoxy) -2-pyridinesulfonamide

Structure :



$C_{14}H_{14}F_3N_5O_6S$

Molecular weight : 437.35
Meilting range : 195 ºC
Uses : Herbicide
Synthesis:



	Name	CAS#
1	2-chloro-3-hydroxypyridine	6636-78-8
2	2-chloro-3-benzyloxypyridine	
3	2-Mercapto-3-benzyloxypyridine	1175008-62-4
4	2-aminosulfonyl-3-benzyloxypyridine	
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-benzyloxypyridine

CAS No. : 1175008-62-4

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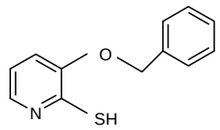
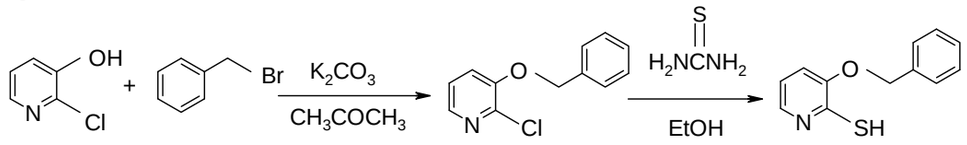
Structure :



$C_{13}H_{11}NOS$

Uses : Intermediate of herbicide trifloxysulfuron

Synthesis:



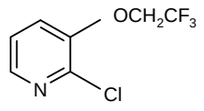
1 2 3 4

	Name	CAS#
1	2-chloro-3-hydroxypyridine	6636-78-8
2	Benzyl bromide	
3	2-chloro-3-benzyloxypyridine	
4	2-Mercapto-3-benzyloxypyridine	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-benzyyloxypyridine (3) in 97% yield. The compound 3 then reacts with 1.2 equiv. of thiourea in anhydrous ethanol to produce 2-mercapto-3-benzyloxypyridine (4) in 77.95% yield.

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

Structure :



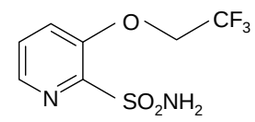
$C_7H_5ClF_3NO$

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

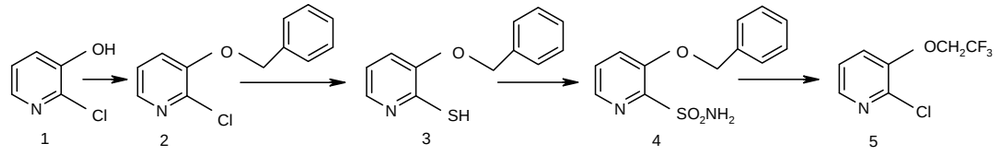
Structure :



$C_7H_7F_3N_2O_3S$

Uses : Intermediate of Trifloxysulfuron

Synthesis:



1 2 3 4 5

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

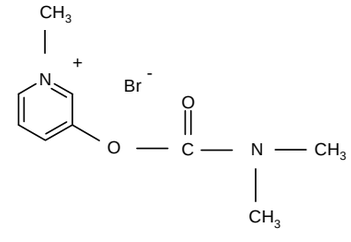
Mestinon

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

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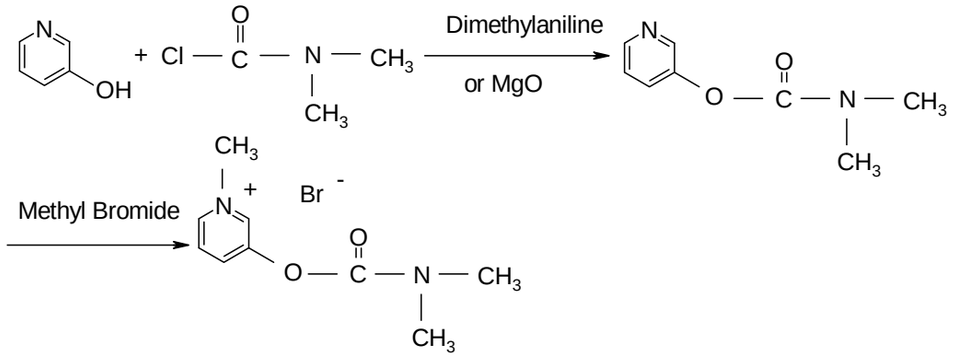
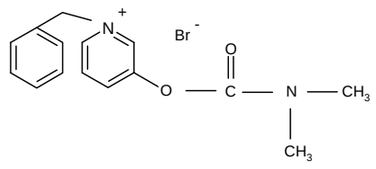
weight
Uses : Cholinesterase inhibitor
Synthesis:



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 :

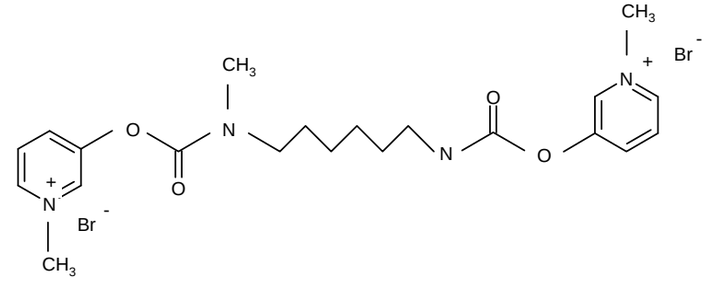


$C_{15}H_{17}BrN_2O_2$

Uses : cholinergic

Distigmine bromide

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



$C_{22}H_{32}Br_2N_4O_4$

Uses : Cholinesterase inhibitor