

PRODUCT IN FOCUS



(S)-(+)-Glycidyl p-toluenesulphonate

INTRODUCTION

(S)-(+)-Glycidyl p-toluenesulphonates is an organic chemical in the class of epoxide and it is a chiral molecule. Its reactivity is due to presence of active epoxide moiety and thus it undergoes various transformation reactions leading to syntheses of chiral intermediates and biologically active products.

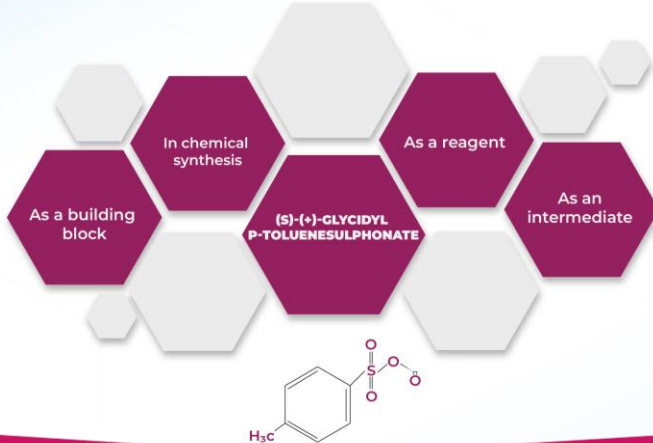
Manufacture

The chiral compound is manufactured by the reaction of tosyl chloride with S-glycidol. The resultant ester is treated with a strong base to obtain the desired product.

Applications

- ✓ Enantioselective synthesis of 4-acetyl-3-hydroxymethyl-3,4-dihydro-2H-pyrido [3,3-*b*]oxazine
- ✓ In synthesis of 1-O-hexadecyl-2-O-benzyl-sn-glycerol 3-O-p-toluenesulphonte
- ✓ As a reagent in production of chiral molecules and chiral intermediates for APIs such as:
 - ❖ (S)-2-Oxiranylanisole
 - ❖ (S)-2-((3-Chlorophenoxy)methyl)oxirane
- ✓ As building block for polymers and other materials
- ✓ In synthesis of peptides, peptidomimetics, and other biological active substances
- ✓ As an intermediate to synthesize neurochemicals

Synonym	(2S)-(+)-Glycidyl tosylate (S)-Glycidyl tosylate
CAS no.	70987-78-9
EINECS no.	417-210-7
Molecular formula	C ₁₀ H ₁₂ O ₄ S
Molecular weight	228.26
Structure	



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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	White to off-white crystalline powder
Specific rotation, (C=2.75 CHCl ₃)	-	+17 to +19
LOD	%	Max 1.0
Melting point	°C	45.0 – 48.0
Assay by GC	%	Min 98.0
Enantiomeric excess by HPLC	ee%	Min 99.0

STORAGE

2 to 8 °C

PACKING

25 kg drum

REACH Status

Not registered yet

No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.