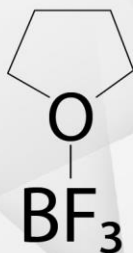


BORON TRIFLUORIDE TETRAHYDROFURAN COMPLEX



PRODUCT IN FOCUS



Boron trifluoride tetrahydrofuran complex

INTRODUCTION

Boron trifluoride tetrahydrofuran complex, is a colorless liquid that is commonly used as a Lewis acid catalyst in various organic reactions. It has a wide range of applications in the synthesis of pharmaceuticals, polymers, and other organic compounds. The BF₃·THF complex is known for its ability to activate nucleophiles and facilitate reactions such as Friedel-Crafts acylation and alkylation. It is also used as a reagent in the preparation of boron-containing compounds. Overall, it plays a crucial role in organic chemistry, providing a versatile tool for the formation of new carbon-carbon and carbon-heteroatom bonds.

MANUFACTURE

Boron trifluoride tetrahydrofuran complex is produced by purging of BF₃ gas into tetrahydrofuran at controlled rate of temperature & pressure.

APPLICATIONS


Reactant or reagent involved in:

- ✓ Deoxofluorination of alcohols and carbonyls
- ✓ Synthesis of Methacrylate-PEG-Methacrylate-boron trifluoride self-doped gel polymer electrolytes
- ✓ Hydroboration-oxidation of Divinylferrocene

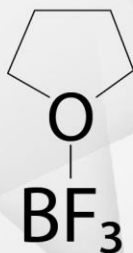
Reagent involved in the synthesis of biologically active molecules such as:

- ✓ NK-1 receptor antagonists
- ✓ Complex polyketide natural products
- ✓ Selective serotonin reuptake inhibitors

Used extensively as a polymerization initiator.

Synonym	BF ₃ ·THF, Boron trifluoride THF complex
CAS no.	462-34-0
EINECS no.	207-325-9
Molecular formula	BF ₃ · THF
Molecular weight	139.91
Structure	

BORON TRIFLUORIDE Tetrahydrofuran Complex



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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Clear light brown liquid, darken on storage
Boron Trifluoride Content (By Fluorine)	%	Min 45.0
Boron Trifluoride Content (By Boron)	%	Min 45.0
Typical Property		
*Specific Gravity	gm/ml	1.25 - 1.27

*Note: Not reported on COA

PACKING

35 Liter HDPE Jerrycan and 200 kg MS-HDPE composite drums

STORAGE

Store at room temperature in a well-ventilated place; Keep the container tightly closed.

REACH Status

Not registered.

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.