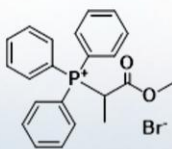


(2-Methoxy-1-methyl-2-oxoethyl) triphenyl phosphonium bromide



PRODUCT IN FOCUS



(2-Methoxy-1-methyl-2-oxoethyl)triphenylphosphonium bromide

INTRODUCTION

(2-Methoxy-1-methyl-2-oxoethyl)triphenylphosphonium bromide is a stabilized phosphonium salt widely used as an intermediate in organic synthesis. Due to presence of an ester group, the compound generates a stabilized ylide that is particularly useful for synthesizing α , β -unsaturated esters, valuable intermediates in pharmaceuticals, agrochemicals, fragrances, and fine chemicals.

MANUFACTURE

(2-Methoxy-1-methyl-2-oxoethyl)triphenylphosphonium bromide generally prepared by quaternization (alkylation) of triphenylphosphine with methyl 2-bromopropanoate under controlled reaction conditions.

APPLICATIONS

(2-Methoxy-1-methyl-2-oxoethyl)triphenylphosphonium bromide is mainly used for preparing stabilized phosphorus ylides, which are important reagents in olefination reactions. The main areas of application include:

Organic synthesis:

- Produces stabilized ylide with good selectivity.
- The ylide is used in synthesis of α , β -unsaturated esters, Conjugated dienes, Functionalized alkenes, etc.

Pharmaceutical intermediates:

It serves as a key intermediate in synthesizing:

- Drug candidates,
- Biologically active molecules,
- Natural product analogues, etc.

Fine chemical manufacturing:

The reagent is used in producing:

- Specialty chemicals,
- Functional intermediates,
- Custom synthesis products, etc.

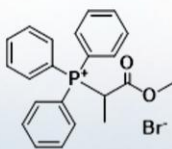
Agrochemical synthesis:

Used in preparing intermediates for:

- Herbicides,
- Fungicides,
- Insecticides, etc.

Synonyms	Phosphonium, (1-carboxyethyl)triphenyl-, bromide, methyl ester; (1-Carboxyethyl)triphenylphosphonium bromide, methyl ester
CAS no.	2689-62-5
EINECS no.	N/A
Molecular formula	C ₂₂ H ₂₂ BrO ₂ P
Molecular weight	429.29
Structure	

(2-Methoxy-1-methyl-2-oxoethyl) triphenyl phosphonium bromide



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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	White to off-white crystalline powder
Identification by ¹ H and ³¹ P NMR	-	Conform to the structure
Purity (by HPLC)	%	NLT 97.0
Water content	%	NMT 1.0
Free triphenylphosphine	%	NMT 1.0
Triphenylphosphine oxide	%	NMT 1.0

STORAGE & PRECAUTION

Store the container tightly closed in a dry, cool and well-ventilated place.

PACKING

UN Approved drums;
Packaging quantities: 25 kg/drum

REACH Status

Not registered

ExSyn offers (2-Methoxy-1-methyl-2-oxoethyl)triphenylphosphonium bromide on a commercial scale and welcomes your enquiries. Regardless of the quantity required, our commitment to exceptional quality and reliable service makes ExSyn the preferred supplier of choice! Should you require any additional information or SDS, please feel free to contact us.