

L-Glutamic Acid α -tert-Butyl Ester

Cat. No. CEGZ-6540

Lot. No. (See product label)

Introduction

Description

L-Glutamic Acid α -tert-Butyl Ester is a 99% pure protected glutamic acid derivative in which the α -carboxyl group is masked as a tert-butyl ester.

Applications

Amino acid derivative synthesis Multistep organic synthesis Protected intermediate development Functional molecular design

Synonyms

H-Glu-OtBu; L-Glutamic acid 1-tert-butyl ester

Product Information

CAS No.

45120-30-7

Molecular Formula

C₉H₁₇NO₄

Chemical Name

L-Glutamic acid α -tert-butyl ester

Molecular Weight

203.238

Purity

99%

Structure

L-Glutamic acid with the α -carboxyl group protected as a tert-butyl ester

Composition

L-Glutamic acid α -tert-butyl ester

Function

Protected amino acid intermediate

Melting Point

140 °C

Boiling Point

326.8 °C at 760 mmHg

Quality

Flash point: 151.5 °C Polar surface area: 89.62000 Å² LogP: 1.22050 Predicted pKa: 4.22 ± 0.10

Density

1.133 g/cm³

Grade

Research grade

Usage

For laboratory research and chemical synthesis only.