Creative Enzymes®

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	$C_9H_{17}NO_4$
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.