

# Intermediates (Nirmatrelvir & Antiviral Drugs)

**READY STOCK**  
**GMs to MT**  
**SAMPLE AVAILABLE**

## Intermediate 1

**Name:** (αS,3S)-α-[(tert-Butyloxycarbonyl) amino]-2-oxo-3-pyrrolidinepropanoic acid methyl ester

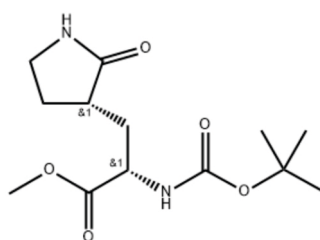
CAS: 328086-60-8

Molecular Formula: C<sub>13</sub>H<sub>22</sub>N<sub>2</sub>O<sub>5</sub>

Molecular Weight: 286.33

**Cat No.:** 05230921

**Structure:**



**Product information:**

- Appearance: White Crystal
- Purity (HPLC) : NLT 99%
- Individual Impurity: NMT 0.5%
- Chiral Purity: NLT 99.9%
- Loss on Drying: NMT 0.5%
- Pack Size: 25 gm, 50 gm, 100 gm, BULK

## Intermediate 2

**Name:** Methyl (S)-2-amino-3-((S)-2-oxopyrrolidin-3-yl)propanoate 4-methylbenzenesulfonate

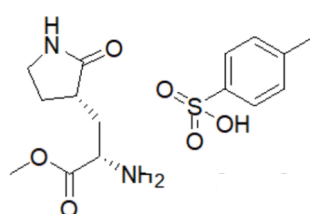
CAS: 2720867-05-8

Molecular Formula: C<sub>15</sub>H<sub>22</sub>N<sub>2</sub>O<sub>6</sub>S

Molecular Weight: 358.41

**Cat No.:** 05230923

**Structure:**



**Product information:**

- Appearance: White Crystal
- Purity (HPLC) : NLT 96%
- Individual Impurity: NMT 2%
- Pack Size: 25 gm, 50 gm, 100 gm, BULK

## Intermediate 3

**Name:** 3-Pyrrolidinepropanamide, α-amino-2-oxo-, hydrochloride

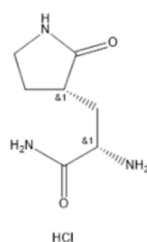
CAS: 2628280-48-6

Molecular Formula: C<sub>7</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 207.66

**Cat No.:** 05230924

**Structure:**



**Product information:**

- Appearance: White Crystal
- Purity (HPLC) : NLT 98.5%
- Chiral Purity: NLT 98.5%
- Total Impurity: NMT 2%
- Pack Size: 25 gm, 50 gm, 100 gm, BULK

# Synthesis Essentials



**Name:** 1-[Bis (dimethylamino) methylene]-1H-1, 2,3-triazolo [4,5-b] pyridinium 3-oxide hexafluorophosphate

**Cat No.:** 0523086

HATU is a coupling reagent and used as an additive in peptide synthesis - It is also involved efficiently to speed up the coupling process and reduces the loss of chiral integrity.

**Product information:**

Cas No: 148893-10-1

Synonym: HATU

Pack Size: 100 gm, 250 gm, 500 gm & 1 Kg

**Name:** 1-Propylphosphonic acid cyclic anhydride, 50+% soln. in ethyl acetate

**Cat No.:** 02162598

T3P is an outstanding carboxyl group activating agent and water scavenger, offering several advantages over many other traditional and hazardous coupling reagents.

Application : Amidations • Peptide Coupling • Olefine Formation • Alcohol Oxidation

Reduction of carboxylic acids to alcohols • Nitrile Formation via Beckmann rearrangement • Aza-Diels-Alder as a Catalyst

**Product information:**

Cas No: 68957-94-8

Synonym: T3P

Pack Size: 50 gm, 100 gm

**Name:** 1-Hydroxy-7-azabenzotriazole

**Cat No.:** 02162764

HOAT is a coupling additive for efficient racemization-free coupling in peptide synthesis.

**Product information:**

Cas No: 39968-33-7

Synonym: HOAT

Pack Size: 100 g, 250 g

**Name:** Diethylaminosulfur trifluoride, 95%

**Cat No.:** 02162444

It is a useful fluorinating agent used for a variety of compounds including alcohols, thioethers, alkenols and cyanohydrins. It also serves as a catalyst for Friedel-Crafts allylation reaction.

It plays an important role for gem difluorination of ketopipicolinic acids.

**Product information:**

Cas No: 338078-09-1

Synonym: DAST

Pack Size: 500 g & 1 kg

**Name:** Bis (Pinacolato) diboron, 99%

**Cat No.:** 02162656

Ni/Cu-Catalyzed Defluoroborylation of Fluoroarenes C-H Borylation of Arenes  
Diastereoselective Synthesis of Homoallylic Alcohols by Diboron-Promoted Coupling of Dienes and Aldehydes  
Substrate used in a new palladium-catalyzed cyclization of 1,6-enynes leading to homoallylic alkylboronates.  
Reagent used for the cis-vicinal diborylation of acetylenes and olefins with Pt catalysis; borylation of aromatics by Pd catalysis.

Used to construct a tetramethylpyrrolidine nitroxide scaffold for the synthesis of paramagnetic heterocycles by Suzuki coupling

**Product information:**

Cas No: 73183-34-3

Synonym: 4,4,4',4',5,5,5',5'-Octamethyl-2,2'-bi-1,3,2-dioxaborolane

Pack Size: 500 g & 1 kg