



KALPASTHANA LIFE CARE PRODUCTS PVT. LTD.

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TECHNICAL DATA SHEET

1,2,3,9-Tetrahydrocarbazolone (Carbazolone)

CAS No: 15128-52-6

PRODUCT DESCRIPTION

A high-purity carbazole derivative (commonly known as 1,2,3,9-tetrahydro-4H-carbazol-4-one, 4-Oxo-1,2,3,4-tetrahydrocarbazole, or 1,2,3,4-Tetrahydrocarbazol-4-one) essential for the synthesis of complex pharmaceutical compounds. This compound is widely utilized as a key starting material (KSM) in the manufacturing of Ondansetron (anti-emetic) and Carvedilol (beta-blocker). Kalpasthana Life Care Products ensures premium purity standards for this intermediate.

SPECIFICATIONS

Product Name	1,2,3,9-Tetrahydrocarbazolone
Synonyms / Abbreviations	1,2,3,9-Tetrahydro-4H-carbazol-4-one, 4-Oxo-1,2,3,4-tetrahydrocarbazole, Carbazolone, Ondansetron Intermediate
CAS Number	15128-52-6
Molecular Formula	C ₁₂ H ₁₁ NO
Molecular Weight	185.22 g/mol
Appearance	Off-white to Pale Yellow Powder
Purity (HPLC)	≥ 99.0%
Melting Point	220°C - 225°C

APPLICATIONS & USAGE

This compound is a highly versatile heterocyclic intermediate. It serves as the primary starting material for the synthesis of Ondansetron (a critical 5-HT₃ receptor antagonist for chemotherapy-induced nausea) and acts as an intermediate pathway to 4-hydroxycarbazole for Carvedilol API production. Additionally, it finds application in the synthesis of other carbazole-based pharmaceuticals like Alosetron and high-performance optoelectronic polymers.

- Heterocyclic Building Block: A critical precursor for Borsche–Drechsel cyclization and Fischer Indole derivatives.
- Multi-API Sourcing: Supports commercial manufacturing lines for anti-emetics (Ondansetron, Alosetron) and cardiovascular therapies (Carvedilol).
- Polymer & Material Science: Used in the synthesis of photoconductive carbazole polymers and light-emitting materials.

DISCLAIMER & SAFETY

Disclaimer: The information contained in this Technical Data Sheet is accurate to the best of our knowledge. It is provided for informational purposes only. The user assumes all risk and liability for the product's use in manufacturing or commercial applications. Products are intended for industrial manufacturing and laboratory research purposes only. Please refer to the Material Safety Data Sheet (MSDS) for detailed safety, handling, storage, and disposal guidelines.