



## KALPASTHANA LIFE CARE PRODUCTS PVT. LTD.

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### TECHNICAL DATA SHEET

## Methyl 5-oxohexanoate

CAS No: 13984-50-4

#### PRODUCT DESCRIPTION

A high-purity bifunctional keto-ester (commonly referred to as Methyl 5-oxohexanoate or 5-Oxo Methyl Hexanoate) widely utilized as an intermediate in organic synthesis, pharmaceutical building blocks, flavor compounds, and fine chemicals. Featuring both a ketone and an ester group, this compound allows for selective chemical transformations. Kalpasthana Life Care Products manufactures high-assay Methyl 5-oxohexanoate at our facility in Karnataka under strict quality control.

#### SPECIFICATIONS

Product Name	Methyl 5-oxohexanoate
Synonyms / Alternate Names	5-Oxohexanoic acid methyl ester, Methyl 5-oxocaproate, 5-Oxo Methyl Ester
CAS Number	13984-50-4
Molecular Formula	C <sub>7</sub> H <sub>12</sub> O <sub>3</sub>
Molecular Weight	144.17 g/mol
Appearance	Colorless to off-white liquid
Purity (GC)	≥ 98.0%
Boiling Point	204°C - 206°C

#### APPLICATIONS & USAGE

Methyl 5-oxohexanoate is a highly versatile keto-ester intermediate utilized in the synthesis of active pharmaceutical ingredients, notably the non-steroidal anti-inflammatory drug (NSAID) Indomethacin. Its dual functionality allows for selective condensations, cyclizations, and preparation of pyridazinone cardiovascular agents, agrochemicals, and fragrance molecules.

- Indomethacin Synthesis: Critical starting material that reacts with 4-methoxyphenylhydrazine to form the indole core of Indomethacin.
- Fine Chemical Scaffold: Excellent bifunctional reactivity combining a keto group and an ester for synthesizing pyrrole, pyridazine, and furan rings.
- Fragrance & Agrochemicals: Used to synthesize delta-lactones, cyclic fragrance compounds, and select crop protection herbicides.

#### 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.*