KALPASTHANA LIFE CARE PRODUCTS PVT. LTD.

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TECHNICAL DATA SHEET

1,4-Cyclohexanedione (1,4-CHD / 14 CHD)

CAS No: 637-88-7

PRODUCT DESCRIPTION

An essential cyclic ketone intermediate (widely known as 1,4-CHD, 14 CHD, or Cyclohexane-1,4-dione) used in the synthesis of the migraine medication Frovatriptan and conductive polymers. Serving as a critical building block for Frovatriptan and specialized agrochemicals, this compound is manufactured with high assay values. We ensure excellent stability and consistency for complex organic synthesis applications.

SPECIFICATIONS

Product Name	1,4-Cyclohexanedione (1,4-CHD / 14 CHD)
Synonyms / Abbreviations	1,4-CHD, Cyclohexane-1,4-dione, 14 CHD, Tetrahydroquinone
CAS Number	637-88-7
Molecular Formula	C6H8O2
Molecular Weight	112.13 g/mol
Appearance	White to Light Yellow Crystalline Powder
Purity (GC)	≥ 98.0%
Melting Point	77°C - 81°C

APPLICATIONS & USAGE

1,4-Cyclohexanedione is a symmetric, bifunctional building block highly valued in organic synthesis. It is the primary key starting material (KSM) for the anti-migraine drug Frovatriptan. Its unique diketone reactivity enables selective mono- or di-functionalization, making it essential in synthesizing conductive polymers, liquid crystals, agricultural crop-protection agents, and pharmaceutical materials.

- Frovatriptan Synthesis: Pivotal starting material for constructing the tetrahydrocarbazole core of Frovatriptan API.
- Conductive Materials & Polymers: Precursor for synthesizing conductive polyaniline/quinone composites and advanced liquid crystal displays (LCDs).
- Bifunctional Reactivity: Allows elegant double condensation, reductive amination, or selective protection for complex heterocyclic syntheses.

DISCLAIMER & SAFETY

Plant Address: Plot No. 105, Part A, KIADB Industrial Area, Gadvanthi Village, Humnabad, Bidar District, Karnataka - 585330, India.

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