



KALPASTHANA LIFE CARE PRODUCTS PVT. LTD.

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TECHNICAL DATA SHEET

Dimethyl Adipate

CAS No: 627-93-0

PRODUCT DESCRIPTION

A high-purity dibasic ester (commonly referred to as Dimethyl Adipate) widely utilized as a low-toxicity, biodegradable solvent and key starting intermediate in polymer chemistry, coatings, and organic synthesis building blocks. With its symmetrical di-ester design, Dimethyl Adipate serves as an excellent safe substitute for high-VOC solvents and a direct monomer for polyurethane and polyester coatings. Kalpasthana Life Care Products ensures consistent, high-purity supply for B2B industrial operations.

SPECIFICATIONS

Product Name	Dimethyl Adipate
Synonyms / Alternate Names	Hexanedioic acid dimethyl ester, Dimethyl hexanedioate, DMA, DBE-6
CAS Number	627-93-0
Molecular Formula	C ₈ H ₁₄ O ₄
Molecular Weight	174.19 g/mol
Appearance	Colorless transparent liquid
Purity (GC)	≥ 99.0%
Boiling Point	109°C - 110°C at 14 mmHg

APPLICATIONS & USAGE

Dimethyl Adipate is a high-performance, eco-friendly dibasic ester solvent and polymer intermediate. Possessing a mild odor and a highly biodegradable profile, it is widely used in industrial paint strippers, printing inks, crop protection formulations, cosmetics, and as a key monomer in synthesizing polyurethanes, plasticizers, and high-molecular-weight polyesters.

- Green Solvent: Low VOC and high safety rating, serving as an excellent replacement for chlorinated or hazardous industrial solvents.
- Polymer & Coatings Monomer: Acts as a plasticizer and di-ester reactant for polyurethane elastomers, coatings, and adhesives.
- Agrochemical Carrier: Formulated as a highly effective solvent carrier for active ingredients in crop protection sprays.

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.