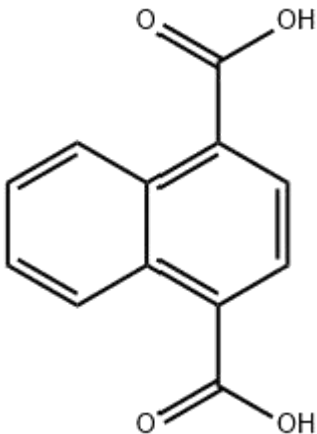


CERTIFICATE OF ANALYSIS

Product Features

	CAS No.	605-70-9
	Product name	1,4-Naphthalenedicarboxylic acid
	Appearance	White to yellow to orange powder crystals
	Purity(HPLC)	≥99%
	Molecular formula	C ₁₂ H ₈ O ₄
	Molecular weight	216.19
	Package	In Aluminum foil bag, cartons outside.
	Storage	Preserve in a well-closed container and keep in cool, dry place, avoid light.

Application

- 1,4-Naphthalenedicarboxylic acid is an important organic chemical raw material, can be used for the synthesis of a variety of chemical products, such as through the condensation with ethylene glycol and other diols, can be produced polyethylene naphthalene dicarboxylate (PEN) and other polyesters, used in the production of high-performance plastics, fibers and so on.
- It is also the intermediate of many kinds of dyes, used in the synthesis of azo dyes, insecure quinone dyes, etc., can improve the color fastness of dyes and color stability and other properties.
- 1,4-Naphthalenedicarboxylic acid is used as an organic ligand in the preparation of photocatalytic and fluorescent materials.
- The reaction of 1,4-Naphthalenedicarboxylic acid with metal salts under hydrothermal conditions leads to new transition metal coordination polymers. The coordination polymer is a two-dimensional layered structure, in which the aromatic carboxylic acid ligand plays a bridging role, and the fluorescence performance is similar to that of Fbtx ligand, with a slight decrease in intensity, which may be caused by the quenching effect of the ligand after coordination with the metal ion.



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Company Profile

- Heynova (Shanghai) New Material Technology co., Ltd. located in Shanghai is a technologically innovative company with integrated development of R&D, production and sales of high-end Electronic Materials and Specialty Polymer Materials. Meanwhile we are the agent of PI Resin, PI Engineering Plastics and 3D Printing materials.
- **As technology R&D**, the company has maintained close cooperation with a number of domestic research institutes for a long time, focusing on the design of the molecular structure of electronic materials, with a number of invention patents, the core formulations and processes independently controllable, with the ability to customize the development of the materials.
- **As production and supply**, our company has cooperative production bases in Shandong, Jiangsu, Sichuan and Northeast China, which can produce materials from gram to tonnage level, and has all the capabilities of small, medium and large-scale production.

Business Classification

- **Polyimide Materials:** Including PI Monomers, PI Resin, PI Engineering Plastics. PI monomers are mainly Dianhydride and Diamine special monomers, which have been widely used in the production of colorless and transparent Flexible Polyimide Films, Flexible Display Materials, 5G New Materials, Photosensitive Polyimide and Semiconductor Materials, New Energy Automobile Special Insulating Materials, Aerospace Composites, and many other high-tech field products.
- **Photoresist Materials:** Including Photoresist monomer, PAG, PAC, Photoinitiators, Solvents and so on. At present, our company's Photoresist Monomer is mainly based on KrF, ArF Gel monomer, focusing on the provision of Display Photoresist, Semiconductor Photoresist and special Photoresist materials for Semiconductors, Panels, PCB and other fields.
- **OLED Display Materials:** Specialized in providing OLED Display Intermediate materials for cell phones, TVs, flat panels, wearable devices, in-vehicle devices and other fields.
- **Lithium Battery Materials:** Specialized in providing Lithium Battery Diaphragm materials for transportation, electric power storage, mobile communication, new energy storage, aerospace military and other fields.
- **3D Printing Materials:** Specialized in providing 3D Printing Organic Resin materials and high-end Metal materials for aerospace, marine, nuclear industry, medical and other fields.
- **Customized services:** We can customize the development of products according to customer needs, and continuously optimize the material properties and key indicators, developed in collaboration with customers, established the direct channel of "R & D - Validation - Mass production".