Heynova (Shanghai) New Material Technology CO., Ltd
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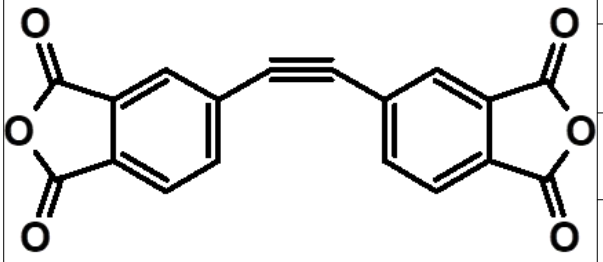
CERTIFICATE OF ANALYSIS

Product Features



CAS No.	129808-00-0
Product name	4,4'-(Ethyne-1,2-diyl)diphthalic anhydride
Appearance	Light yellow powder
Purity(HPLC)	≥99%
Molecular formula	$C_{18}H_6O_6$
Molecular weight	318.24
Package	In Aluminum foil bag, cartons outside.
Storage	Preserve in a well-closed container and keep in cool, dry place, avoid light.

4,4'-(Ethyne-1,2-diyl)diphthalic anhydride belongs to the monomers of aromatic carboxylic acid dianhydrides, which have inherently good properties such as wear and friction properties, good electrical properties, radiation resistance, good low temperature stability, and good flame retardant properties.

Application

- The main use of 4,4'-(ethyne-1,2-diyl)diphthalic anhydride is as a dye intermediate and as a raw material for the synthesis of polymeric materials. It can be used in the preparation of a variety of pigments and dyes, such as phthalocyanine blue, acid yellow 47 and phthalocyanine blue 40. It can also be used in the manufacture of polymer materials such as polyester, polyamide and polyimide.
- 4,4'-(Ethyne-1,2-diyl)diphthalic anhydride is used in the electronics industry in flexible cables (as an insulating film on magnetic wires) and also in medical catheters.

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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”.