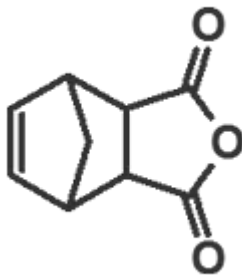


## CERTIFICATE OF ANALYSIS

### Product Features

|  |                   |   |
|--|-------------------|---|
|  | CAS No.           | 826-62-0  |
|  | Product name      | Nadic Anhydride   |
|  | Abbreviation      | NA  |
|  | Appearance        | Off-white to white crystalline powder   |
|  | Purity(HPLC)      | ≥99%  |
|  | Molecular formula | C <sub>9</sub> H <sub>8</sub> O <sub>3</sub>                                  |
|  | Molecular weight  | 164.16  |
|  | Package           | In Aluminum foil bag, cartons outside.  |
|  | Storage           | Preserve in a well-closed container and keep in cool, dry place, avoid light. |

Nadic anhydride, also known as NA, has a bicyclic structure with two spatial isomers, endo- and exo-. Appearance is white columnar crystal, melting point>150°C, relative density: 1.417, soluble in benzene, toluene, acetone, chloroform, etc., deliquescent.

### Application

- Nadic anhydride is an important chemical raw material, widely used in the process of organic synthesis as solvents and catalysts, manufacturing aids, etc. Used in polyurethane plastics foaming catalysts, with particularly good performance.
- Used in unsaturated polyester resin, it has better air dryness, higher heat resistance, finish, higher electrical properties, corrosion resistance and mechanical strength than the resin made with phthalic anhydride and tetrahydrophthalic anhydride.
- Used as curing agent for epoxy resin, suitable for casting, laminating, powder molding, etc. The cured material has excellent weather resistance, heat resistance and electrical properties.
- Used as modifier for alkyd resin, urea-formaldehyde resin, melamine resin and so on.
- It can be used as insecticide, vulcanization regulator, plasticizer, surfactant, textile finishing penetrant, etc. It can also be used as hardening agent of hardened glass, intermediate of rubber softener, surface activator of plastics, steel wire, enamel, resin, etc. and high boiling point solvent.



**Heynova (Shanghai) New Material Technology CO., Ltd**

Building 3, Zhangjiang Microelectronics Port, No. 690 Bibo Road, Pudong New Area, Shanghai

Tel: +86-178-2110-2608 Mail: [info@heynovachem.com](mailto:info@heynovachem.com)

Web site: [www.heynovachem.com](http://www.heynovachem.com) Post Code: 201203

## 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".