



Specialized in chemicals

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418695

Fax: (0086) 551 65418697

Email: info@tnjchem.com

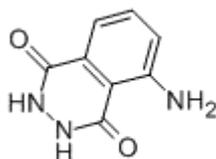
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Technical Data Sheet

3-Aminophthalhydrazide

Product Information

Chemical Name	3-Aminophthalhydrazide
CAS #	521-31-3
Formula	C ₈ H ₇ N ₃ O ₂
Molecular Weight	177.16
Synonyms	Luminol
Chemical Structure	



Description

3-Aminophthalhydrazide is off-white to light yellow powder, the melting point 300 ° C (lit.), water solution <0.1 g/100 mL at 19 ° C, it is a chemically fluorescent molecule. Luminol is a chemiluminescent probe that has been used to detect myeloperoxidase-mediated oxidative events in granulocytes and for chemiluminescence analysis of metal cations and blood.

Physical Properties

Melting point, ° C .	>300 ° C (lit.)
storage temp	0-6° C
Water Solubility	Water Solubility

Specification

Appearance	Off-white to light yellow powder
Assay(HPLC)%	≥98.0
Loss on drying %	≤8.0

Safety

It is not dangerous chemicals.

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes serious eye irritation.

Applications

- (1) Luminol is a chemiluminescence reagent, luminol is used by forensic investigators to detect trace amounts of blood left at crime scenes, as it reacts with iron found in hemoglobin. It is used by biologists in cellular assays for the detection of copper, iron, and cyanides, as well as of specific proteins by western blot.
- (2) It can be used as chemical analysis reagents, indicators.
- (3) It can be used for chemiluminescence analysis such as measurement of metal cations, blood and glucocorticoids

Packaging

25kg/drum or 1kg/bottle

Storage & Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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B911 Xincheng Business Center
Qianshan Road, Hefei
230022 Anhui
China

Tel : (0086) 551 5418695
Fax: (0086) 551 5418697
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Site: www.tnjchem.com