

# Technical Data Sheet (TDS)

## Diaminomaleonitrile (DAMN)

### Product Information

Chemical Name: Diaminomaleonitrile

Chemical Formula: C<sub>4</sub>H<sub>4</sub>N<sub>4</sub>

CAS Number: 1187-42-4

Molecular Weight: 108.10 g/mol

Appearance: Off-white to light yellow crystalline powder

### Specifications

Property	Specification
Purity	>= 98%
Melting Point	194-198°C
Moisture Content	<= 0.5%
Insoluble Matter	<= 0.2%
Solubility	Soluble in water, slightly soluble in ethanol
Loss on Drying	<= 0.5%

### Applications

Diaminomaleonitrile is commonly used in:

- Polymer synthesis: As a cross-linking agent and intermediate for specialty polymers.
- Pharmaceuticals: As an intermediate in the synthesis of heterocyclic compounds.
- Agriculture: In the synthesis of agrochemical compounds.

### Packaging

Standard Packaging: 50 kg fiber drum or as per customer requirement.

## Storage and Handling

Storage Conditions: Store in a cool, dry, and well-ventilated area. Keep away from sources of ignition, heat, and direct sunlight.

Shelf Life: 12 months if stored under recommended conditions in original, unopened packaging.

## Safety Information

Hazards: Diaminomaleonitrile is harmful if swallowed or inhaled. It may cause skin and eye irritation.

Personal Protective Equipment (PPE): Use gloves, goggles, and protective clothing when handling the product.

First Aid Measures:

- Inhalation: Move to fresh air and seek medical attention if symptoms persist.
- Skin Contact: Wash with soap and water. Remove contaminated clothing.
- Eye Contact: Rinse immediately with plenty of water and seek medical advice.

## Regulatory Information

REACH Status: Compliant

GHS Classification: Hazardous substance

Transport Information: Not classified as a dangerous good under transportation regulations.

## Disclaimer

The information provided in this TDS is believed to be accurate and reliable, but it is presented without warranty. Users should conduct their own tests to determine the suitability of the product for their specific applications.