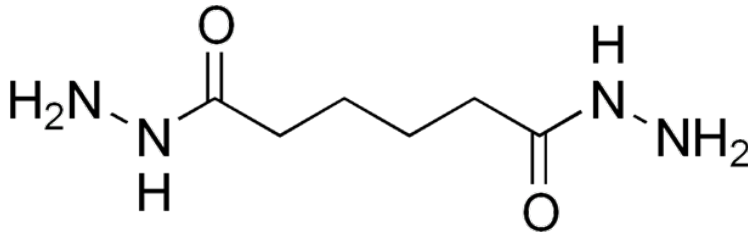

ADIPIC ACID DIHYDRAZIDE



IUPAC NAME: hexanedihydrazide

CHEMICAL FORMULA: C₆H₁₄N₄O₂

CAS NO: 1071-93-8

MOLECULAR WEIGHT: 174.2 g/mol

PACKING:

PRODUCT DESCRIPTION:

Adipic Dihydrazide (ADH) is a distinctive crosslinking agent and curative that provides controlled reactivity and performance improvements in epoxy resins, polyurethane dispersions (PUDs), solvent-based polyurethanes (PURs), and emulsion acrylic resins. ADH finds major applications as a latent curing agent for B-stageable epoxy resins and as an ambient temperature crosslinking agent for high-performance acrylic emulsion architectural coatings. Materials crosslinked or cured with ADH demonstrate excellent colour stability, weathering resistance, adhesion, durability, hardness, and toughness.

PROPERTIES:

Adipic Dihydrazide serves as a difunctional crosslinking agent in paints and coatings applied to specific water-based acrylic emulsions. Additionally, it acts as a hardener for epoxy resins and a chain extender for polyurethanes. Moreover, it finds a minor application as a formaldehyde scavenger, preventing the release of formaldehyde.

APPLICATION AREAS:

Adipic Dihydrazide is used as a difunctional crosslinking agent in paints and coatings for certain water-based acrylic emulsions. It is used as a hardener for epoxy resins and a chain extender for polyurethanes. A small use is as a formaldehyde scavenger preventing the liberation of formaldehyde.

IT IS APPLIED IN THE PRODUCTION OF:

- Crosslinking Agent for Polymers
- Elastomers and Rubber Industry
- Adhesives and Sealants
- Coatings and Paints
- Textile Industry
- Corrosion Inhibitors
- Biomedical Applications
- Photography
- Water Treatment
- Fuel Additives
- Polymer Modification


CHEMICAL PROPERTIES

PURITY	≥ 99.0
ACID CONTENT	
MOISTURE AMOUNT	≤0.5 %
COLOUR (APHA)	
INHIBITOR	

PHYSICAL PROPERTIES

APPEARANCE	White powder
PHYSICAL STATE	Solid
BOILING POINT	305°C
FREEZING POINT	180°C

SAFETY INFORMATION

HAZARD PICTOGRAM(S)	
HAZARD STATEMENT(S)	H411 Toxic to aquatic life with long lasting effects.
PRECAUTIONARY STATEMENT(S)	P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/ container to an approved waste disposal plant.
STORAGE CLASS	Storage class (TRGS 510): 11: Combustible Solids
STORAGE CONDITIONS	Tightly closed. Dry. Recommended storage temperature -20 °C
DISPOSAL	No information
TRANSPORT INFORMATION	UN number: <ul style="list-style-type: none">• ADR/RID: 3077• IMDG: 3077• IATA: 3077 UN proper shipping name: <ul style="list-style-type: none">• ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Adipohydrazide)• IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Adipohydrazide)• IATA: Environmentally hazardous substance, solid, n.o.s. (Adipohydrazide) Transport hazard class(es): <ul style="list-style-type: none">• ADR/RID: 9• IMDG: 9• IATA: 9 Packaging group:



AdaKem[®]
Kimya San. Ve Tic Ltd. Şti.

- ADR/RID: III
- IMDG: III
- IATA: III

Environmental hazards:

- ADR/RID: yes
- IMDG Marine pollutant: yes
- IATA: yes

For more information, check the SAFETY DATA SHEET or get contact with us.