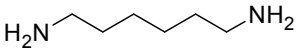
Hexamethylenediamine - HMD 72%

Technical Data Sheet n°: **261RC035_12**
Last Update: 25.01.2021
Commercial Product Code: 90054496

IDENTIFICATION

CAS N°: 124-09-4
EINECS N°: 204-679-6
SYNONYM: ..... Diamino – 1.6 Hexane
1-6 Hexamethylene Diamine
EMPIRICAL FORMULA: ..... $NH_2 – (CH_2)_6 – NH_2$
MOLECULAR WEIGHT: 116.24

MOLECULAR FORMULA:



SPECIFICATIONS

Characteristics (1)	Unit	Limits	Analysis Methods
HMD concentration	% mass	71 - 73	3 AN 05 020
Iron	mg / kg	Max 1.0	3 AN 05 007
Calcium	mg / kg	Max 1.0	3 AN 05 007
Diaminocyclohexane (DCH)	mg / kg	Max 7	3 AN 05 027
Methylpentamethylenediamine (MPMD)	mg / kg	Max 10	3 AN 05 027
Aminométhylcyclopentylamine (AMCPA)	mg / kg	Max 36	3 AN 05 027

(1) These measurements appear in the Certificate of Analysis. Our analytical methods are available upon request.

PHYSICAL PROPERTIES

Appearance: ..... Liquid
Odour: ..... Slight ammonia odour
Temperature characteristics:
- Crystallisation temperature, °C: 3
- Boiling (under 1013 hPa), °C: 113

Apparent density (at 20°C), kg/dm^3: 0.930
Flammability characteristics:
- Auto-ignition temperature, °C: 390

Vapour pressure:
- at 40°C, hPa: 53
- at 60°C, hPa: 144

pH (aqueous solutions – 1.67g/100ml): ... 12.1
Solubility :
- In water: ..... Soluble in any proportion

USES

Textile Industry: production of nylon 6.6 salt (fibres and yarns)
Copolymers
Specialities
Engineering plastics: production of nylon 6.6 salt

PRODUCTION SITE

Saint-Fons (Belle-Etoile), FRANCE

PACKAGING & TRANSPORTATION

185 kg in 216.5 litres drums.
Intermediate Bulk Container (IBC) 1000 litres.
Bulk (trucks or isocontainers).

STORAGE & HANDLING

The Safety Data Sheet is available upon request.
Recommendation for heating temperature without additional safety device: max.60°C.

HEALTH & SAFETY / TRANSPORT REGULATIONS

The Safety Data Sheet is available upon request.

Q.E².H.S. CERTIFICATIONS

The Quality and Environment Energy Health Safety Management Systems in place in all our organizations are inspected and certified according to recognized standards.
Our production sites are all certified ISO 9001 & some sites IATF 16949, ISO 14001, ISO 45001, ISO 50001 as well. Certificates are available upon request.

SHELF LIFE

The shelf life of the product is 1 year from the date of production under appropriate conditions of storage.

For additional information, **please contact your Sales Representative**

PolyTechnyl - Avenue Albert Ramboz, 69190 Saint-Fons, France
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WARNING:
The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding.
This information must on no account be used as a substitutive for necessary prior tests which alone can ensure that a product is suitable for a given use.
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Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations.
Users are requested to check that they are in possession of the latest version of this document, and DOMO Chemicals is at their disposal to supply any additional information.