



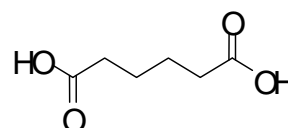
Adipic Acid (Worldwide Standard)

Technical Data Sheet n°: **222RC025_02** (SAP Brazilian Ref: UQP-2-INT- FP-001)
 Last Update: **02.04.2012**
 Commercial Product Code: 90031486

IDENTIFICATION

CAS N°: 124-04-9
 EINECS N°: 204-673-3
 SYNONYM: 1.4 Butanedicarboxylic Acid
 1.6 Hexanedioic Acid
 MOLECULAR FORMULA: C₆H₁₀O₄
 MOLECULAR WEIGHT: 146.1g/mol

STRUCTURAL FORMULA:



SPECIFICATIONS

Characteristics *	Unit	Limits	Analysis Methods
Adipic Acid	% w/w	Min 99.80	251 CA 141
Water	% w/w	Max 0.20	251 CA 071
Iron	mg / kg	Max 0.30	251 CA 077
Nitrates	mg / kg	Max 3.00	252 CA 069
Optical density at 275 nm (filtered)	-	Max 0.020	251 CA 076
Ash content	mg / kg	Max 4.00	251 CA 142

OTHER TYPICAL CHARACTERISTICS

Characteristics**	Unit	Limits	Analysis Methods
Total Nitrogen	Mpm	Max 50	251 CA 144
Colour in Ammoniacal Solution	Hazen	Max 5	251 CA 073
Melting point	°C	151.5-152.5	251 CA 143

* These measurements appear in the certificate of analysis

** For reference only and will not appear in the Certificate of Analysis.

PHYSICAL PROPERTIES

Boiling point (with decomposition): 337.5 °C
Density real (solid) (25/4°C): 1.36 g/cm³
Apparent density (untamped powder): 0.63-0.65 g/cm³
Density liquid (165/4 °C):..... 1,085g/cm³
Vapour density (air = 1) 5.04
Vapour pressure 2 hPa (165°C): 1.5 mm Hg
Flash point (TAG):
- Closed cup: 196°C
- Opened cup: 210 °C
Solubility in water (g/100 g):
- At 20 °C: 1.5
- At 40 °C: 5.2
- At 100 °C: 160
Solubility in methanol at 30°C: 340 g/l
** Adipic Acid is a white crystalline powder with a slight acid taste and a nil to very faint odour.*

USES

Polyamide 66 polymers and fibres
Polyurethanes
Organic synthesis
Lubricants
Plasticizers
Coatings/adhesives/sealants and elastomers
Paint and resins
Flexible and semi-rigid foams
Pharmaceutical industry
Perfumery
Cosmetics and electric insulating

PRODUCTION SITES

Chalampé, France
Onsan, Korea
Paulinia, Brazil

PACKAGING & TRANSPORTATION

25 kg bag, 500 kg big bag, 1000 kg big bag and bulk.
Please consult your local Sales Representative for other packaging options.

STORAGE & HANDLING

A safety data sheet is available upon request.

HEALTH & SAFETY / TRANSPORT REGULATIONS

A safety data sheet is available upon request.

QUALITY & S.H.E. CERTIFICATIONS

The Quality and Safety Health Environment Management Systems in place in our organizations are inspected and certified according to recognized standards. Our production sites are also ISO 9001 & for some sites ISO 14001 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 (indicated in the safety data sheet).

Visit our site: www.rhodia.com



EMEA
Rhodia Operations
190, avenue Thiers
69457 Lyon cedex 06 - FRANCE



NORTH AMERICA
Rhodia Inc.
8 Cedar brook drive
Cranbury, NJ 08512 - USA



LATIN AMERICA
Rhodia Poliamida e Especialidades Ltda.
Centro Empresarial
Al Maria Coelho Aguiar 215
Bloco B 1° andar
CEP 05804-902 Sao Paulo SP - BRAZIL



ASIA
Rhodia Polyamide Co Ltd
3966 Jin Du Road
Xin Zhuang Industry Zone
Min Hang District
Shanghai 201108 - CHINA

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GBU POLYAMIDE & INTERMEDIATES: ETOILE PART-DIEU, 190, AVENUE THIERS – 69457 LYON CEDEX 6 – FRANCE – PHONE : +33.4.37.24.88.88

COMPANY NAME: RHODIA OPERATIONS

REGISTERED OFFICE : 40, RUE DE LA HAIE-COQ – 93306 AUBERVILLIERS CEDEX – FRANCE - PHONE : + 33 1 53 56 50 00 – FAX : +33 1 53 56 55 55

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VAT intracommunity 41 622 037 083