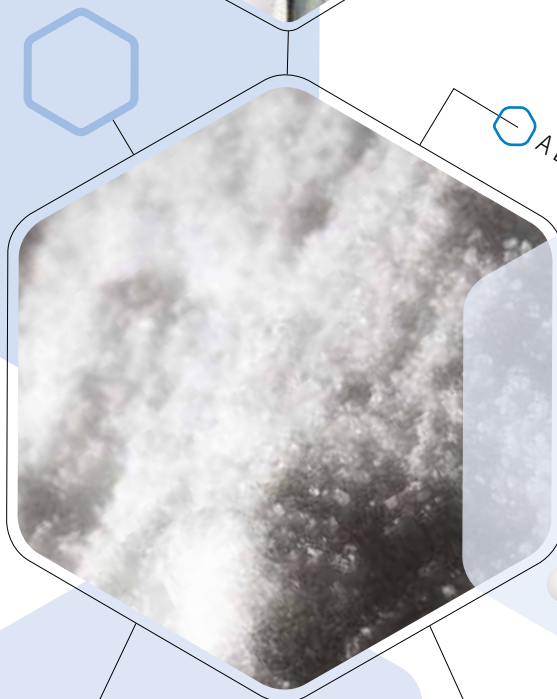
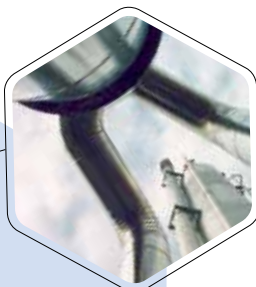
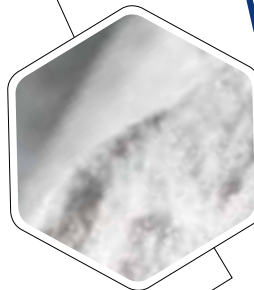


  
SPECIALTY CHEMICALS



ADIPIC ACID

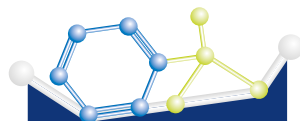
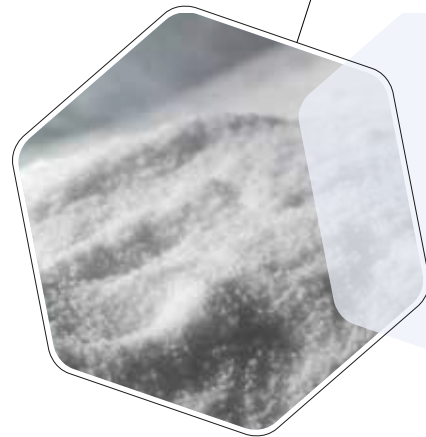


ADIPIC ACID O=C(O)C1CCCCC1





ADIPIC ACID



RadiChem®

# ADIPIC ACID

## INTRODUCTION

*Adipic acid is a key raw material for a broad range of applications in the plastics and textile industries.*

*Radici Chimica, one of the world's leading Adipic Acid suppliers, with its two manufacturing plants in Italy and Germany, guarantees continuity of supply to its customers.*

*Its state of the art technology produces adipic acid with a high degree of purity, ensuring optimal performance for each and every application. Radici Chimica available packaging are 25, 500, 1000 kg bags including both standard and antistatic bags, adipic acid can also be delivered in bulk. Its customer oriented main sales office located in Radici Chimica SpA, Italy, provides customized solutions for various needs.*

## APPLICATION

*Adipic acid is a chemical intermediate mainly used in the manufacture of polyamide 66 and is, therefore, a fundamental building block for a wide variety of products in the plastics and textile industries. Other uses include polyester resins, fibres, polyurethane, plasticizers, lubricants and specialised end uses.*

## HANDLING AND STORAGE

*Put on appropriate personal protective equipment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.*

*Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area.*

*Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.*

*Use appropriate containment to avoid environmental contamination.*



## ADIPIC ACID TECHNICAL DATA

Formula: **C<sub>6</sub>H<sub>10</sub>O<sub>4</sub>** Molecular weight: **146.146**

PROPERTIES:	UNITS	VALUE
Appearance	-	Odourless, white, crystalline solid
Solubility in water (25°C)	%	2.5
Density (solid at 25°C)	g/cm <sup>3</sup>	1360
Density (liquid at 165°C)	g/cm <sup>3</sup>	1085
pH (2.5% wt in water at 25°C)	-	2.7

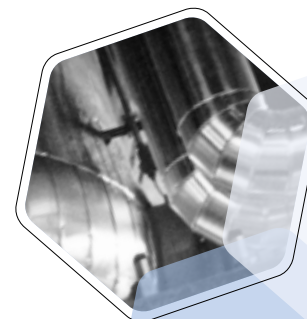
SPECIFICATIONS:	UNITS	VALUE	ANALYSIS METHOD
Total nitrogen (as nitric acid)	ppm	20 max	MA0065
Ashes	ppm	5 max	MA0064
Colour (methanolic solution)	HAZEN	5 max	MA0051
Melt colour	APHA	10 max	MA0067
Iron	ppm	0.2	MA0226
Crystallization point	°C	152 ± 0.5	MA0069
Water	%	0.2 max	MA0052
Assay	%	99.8 min	MA0052

*Methods of analysis are available on request.*

### SAFETY DATA

#### Personal Protection:

Eye protection	Safety glasses impervious to dust
Hand protection	Protective gloves
Respiratory protection	Anti-dust mask
Protective clothing	Anti-dust overalls, visor with hood





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## SPECIALTY CHEMICALS

The information provided in this documentation correspond to our knowledge on the subject at the date of its publication. Information may be subject to revision as new knowledge and experience become available. The data provided fall within the normal range of product properties and relate only to the specific designated material; this data may not be valid for such material if used in combination with any other material or additive or in any process, unless expressly otherwise indicated. The data provided should not be used to establish specification limits.

They are not intended to substitute any testing you may need to conduct to determine the suitability of a specific material for particular purposes.

Since Radici Chimica (RadiciGroup Specialty Chemicals) cannot anticipate all the variations occurring in current end-use conditions, Radici Chimica makes no warranties and assumes no liability in connection with any use of the above information.

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