

# ADMA<sup>®</sup> 16 AMINE

## DESCRIPTION

ADMA 16 amine, hexadecyldimethylamine, is typically used as an intermediate in the manufacture of quaternary ammonium compounds, amine oxides and betaines. This product is a clear liquid at room temperature and has the characteristic odor of fatty amines.

## PHYSICAL PROPERTIES

Alkyl distribution, wt %	
C <sub>12</sub> , & lower	0.1
C <sub>14</sub>	0.3
C <sub>16</sub>	98.9
C <sub>18</sub> , & higher	0.7
Tertiary amine, wt %	99.1
Primary & secondary amine, wt %	< 0.1
Water, wt %	< 0.1
Amine value, mg KOH/g	207.6
Color, APHA	5.0
Specific gravity, 25°C/25°C	0.800
Freezing point, C°	8.0
Flash point, Pensky-Martens, °F (°C)	322 (161)
Appearance	clear liquid

## SPECIFICATIONS

Alkyl distribution, wt %	
C <sub>12</sub> , & lower, max	0.5
C <sub>14</sub> , max	5.0
C <sub>16</sub> , min	95.0
C <sub>18</sub> , & higher, max	2.0
Tertiary amine, wt %, min	97.0
Primary & secondary amine, wt %, max	0.3
Water, wt %, max	0.2
Color, APHA, max	30.0

## SHIPPING INFORMATION

### Storage and Availability

ADMA 16 amine can be stored in carbon steel vessels. Precautions should be taken to avoid contact with moisture, carbon dioxide and copper compounds. To prevent discoloration, air and moisture should be excluded from storage tanks by blanketing with a dry, inert gas such as nitrogen.

Shipments are made in tank cars, stainless steel tank trucks and new lined 55-gallon steel tighthead non-returnable drums.

### Shipping Classifications

Proper shipping name:	Alkylamines, N.O.S. (alkyldimethylamine)
Hazard class:	8 (corrosive material)
ID number:	UN2735
Placard(s):	corrosive
Label(s):	corrosive

## SAFETY AND HANDLING INFORMATION

ADMA 16 amine, like other tertiary amines, is an organic base and should be treated with caution. Observe good industrial hygiene and safe working practices. Avoid ingestion. Avoid contact with eyes, skin and clothing by wearing protective gloves and goggles. Wash thoroughly after handling. In case of ingestion, get immediate medical attention. In case of contact with eyes, immediately flush eyes with water for at least 15 minutes and get medical attention. In case of contact with skin, immediately wash with soap and water. Contaminated clothing should not be reused for any purpose.

For specific information on the safe handling and toxicity of this product, please refer to the Material Data Sheet that is available upon request.

**CHEMICAL REGISTRATION NUMBERS** CAS: 112-69-6



NORTH AMERICA 4350 Congress Street, Suite 700 • Charlotte, North Carolina 28209 • Tel: +1 980 299 5700  
EUROPE Industriepark Höchst, Gebäude G 879, 5926 Frankfurt am Main, Germany • Tel: +49 69 40 12 60  
LATIN AMERICA Isidora Goyenechea Nro. 3162, Oficina 202, Las Condes • Santiago, Chile • Tel: +56-55-2351008  
ASIA PACIFIC Albemarle Management (Shanghai) Co. Ltd. • Building 6, A-Sun Science & Technology Park, Lane 399 Shengxia Road  
Pudong, Shanghai 201210, China • Tel: +86-21-6103-8666

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation and its subsidiaries to ensure the accuracy or reliability of the information. It is the responsibility of the user to comply with all applicable laws and regulations and to provide for a safe workplace. The user should consider all information contained herein only as a guide, and should take precautions that the user considers necessary or prudent to promote a safe work environment, such as considering all applicable health and safety hazards, developing safe work practice procedures and properly instructing employees. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the materials or processes mentioned herein in violation of existing or pending patents.