

Description

ADMA 1416 amine, a blend of alkyldimethylamines, is typically used as an intermediate in the manufacture of quaternary ammonium compounds. This product is a clear liquid at room temperature and has the characteristic odor of fatty amines.

Physical Properties

Alkyl distribution, wt %	
C ₁₀	0.1
C ₁₂	4.9
C ₁₄	60.1
C ₁₆	29.9
C ₁₈	5.0
C ₂₀ & higher.....	0.1
Tertiary amine, wt %.....	99.0
Primary & secondary amine, wt %	< 0.1
Water, wt %	< 0.1
Amine value, mg KOH/g.....	223.5
Color, APHA.....	5
Specific gravity, 25°C/25°C.....	0.798
Freezing point, C°	-1
Flash point, Pensky-Martens, °F (°C)	290 (143)
Appearance	clear liquid

Specifications

Alkyl distribution, wt %	
C ₁₀ , max.....	2.0
C ₁₂	5.0 ± 2
C ₁₄	60.0 ± 3
C ₁₆	30.0 ± 3
C ₁₈	5.0 ± 2
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 1416 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 1416 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 Number

CAS: 112-18-5/112-75-4/112-69-6

The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Albemarle Corporation. 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 any health or safety hazards or information contained herein only as a guide, and should take those precautions which are necessary or prudent to instruct employees and to develop work practice procedures in order to promote a safe work environment. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein materials or processes in violation of existing or future patents.



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