

Description

ADMA 18 amine, octadecyldimethylamine, 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

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| Alkyl distribution, wt % | |
| C ₁₂ and lower | 0.1 |
| C ₁₄ | 0.3 |
| C ₁₆ | 0.5 |
| C ₁₈ | 98.6 |
| C ₂₀ and higher | 0.4 |
| Tertiary amine, wt % | 98.9 |
| Primary and secondary amine, wt % | < 0.1 |
| Water, wt % | < 0.1 |
| Amine value, mg KOH/g | 186.7 |
| Color, APHA | 10 |
| Specific gravity, 25 °C / 25 °C | 0.807 |
| Freezing point, °C | 21 |
| Flash point, Pensky-Martens, °F (°C) | 349 (176) |
| Appearance | clear liquid |

Specifications

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| Alkyl distribution, wt% | |
| C ₁₂ and lower, max | 1.0 |
| C ₁₆ , max | 3.0 |
| C ₁₈ , min | 95.0 |
| C ₂₀ and higher, max | 3.0 |
| Tertiary amine, wt %, min | 97.0 |
| Primary and secondary amine, wt %, max | 0.3 |
| Water, wt %, max | 0.2 |
| Color, APHA, max | 30.0 |

Shipping Information

Storage and Availability

ADMA 18 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 tighthhead non-returnable drums.

Shipping Classifications

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|-----------------------|---|
| 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 18 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: 124-28-7

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. 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 patent.



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