

Technical Data Sheet

DIMLA TM 1214

Chemical Synonym

N,N-dimethyldodecylamine N,N dimethyltetradecylamine / N,N dimethylaurylamine; N,N-dimethylmyristylamine; N,N dimethyldodecanamine N,N dimethylundecanamine / Dodecyldimethylamine; Tetradecyldimethylamine / Dimethyldodecylamine; Dimethyltetradecylamine /

Applications

- Fabric care
- Hard surface care
- Home & industrial care intermediates
- Industrial cleaners
- Institutional cleaners
- Soap/detergents

Product Description

Dimla TM 1214 mainly contains alkyldimethylamines with chain length C12 and C14. The product is a clear to slightly yellow liquid at room temperature and has the characteristic odor of fatty amines.



Dimla TM 1214 is used for the production of:

- Quaternary ammonium compounds (quats)
- Amine oxides
- Amphoterics (betaines and sulfobetaines)

Typical Properties

Property	Typical Value, Units
General	
Molecular Weight	
C12	213.41 g/mol
C14	241.46 g/mol
Appearance	Colorless liquid
Autoignition Temperature	235 °C
Boiling Point	276-294 °C
Density	
@ 20°C	0.7914 g/cm ³
Dissociation constant, pKa	
@ 25°C	9.78
Flash Point	
Closed Cup	121 °C
Freezing Point	-21 °C
Octanol-water partition coefficient, log Pow	
@ 20°C	4.7
pH	
5% solution	10.5
Solubility	
Chloroform and isopropylalcohol	Soluble

Organic solvents	Miscible
Water	Insoluble (floats on water)
Surface Tension	
@ 25°C	25.2 mN/m
Thermal Decomposition Temperature	>150 °C
Vapor Pressure	
@ 20°C	0.009 hPa
@ 25°C	0.014 hPa
@ 50°C	0.094 hPa
Viscosity	
@ 20°C	3.39 mPa·s
@ 40°C	2.29 mPa·s

Packaging

- Bulk
- Plastic drums (165 kg net)
- IBC containers (750 kg net)

Storage

The product can be stored in carbon steel vessels. Do not store above 80°C.

Precautions should be taken to avoid contact with moisture, CO₂ and copper compounds. To prevent discoloration, air and moisture should be excluded from the storage tanks by blanketing with a dry inert gas (e.g. nitrogen).

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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