

SABIC® DIETHANOLAMINE DEA 99

DESCRIPTION

DEA 99 is a clear hygroscopic liquid with a mild ammoniacal odor at above room temperature. At room temperature, it is a white crystalline solid.

TYPICAL PROPERTY VALUES

Revision 20210812

SPECIFICATIONS	TYPICAL VALUES	UNITS	TEST METHODS
SPECIFICATIONS			
Appearance			
@ 30 °C	Clear Liquid	-	SKIMS/QAD-SOP-168
Ethanolamines			
Monoethanolamine	≤0.5	%	SKIMS/QAD-SOP-293
Diethanolamine	≥99.5	%	SKIMS/QAD-SOP-293
Triethanolamine	≤0.5	%	SKIMS/QAD-SOP-293
Color			
-	≤20	APHA	ASTM D 1209
Water			
-	≤0.2	%	ASTM E203

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PROPERTIES			
Specific Gravity			
@ 30/20 °C	1.093	TBC	-
Melting / Freezing Point			
-	28	°C	-
Boiling Point			
-	269	°C	-
Flash Point			
Open Cup	138	°C	-

APPLICATIONS

Chemicals DEA 99 is used a raw material for manufacturing of Morpholine.

Crop Care DEA 99 is an important intermediate for manufacturing Glyphosate.

Alkanolamides DEA 99 is used for making alkanolamides, which are used as softeners in Textile industry, as anti corrosives in metal working and in Oil field applications.

Coatings DEA 99 is used as accelerator for photo polymerization coatings. It is also used in the preparation of cationic polymers for electro phoretic coatings.

Gas Sweetening DEA 99 reacts with H₂S, CO₂ and other acid constituents of the Gas to give a water soluble salt resulting in "sweet" gas.

Optical brighteners DEA 99 is used in manufacturing of optical brighteners for textile and Paper applications.

Electroplating DEA 99 is used in baths for electro plating baths for Palladium.

KEYWORDS

Morpholine
Glyphosate
Alkanolamides
Coatings
Gas Sweetening
Optical brighteners
Electro plating

SHELF LIFE

DEA 99 can be stored up to 12 months from the date of manufacture in original, unopened, properly stored drums in good storing conditions. Beyond 12 months, SABIC recommends the quality of material to be conformed prior to use, by retesting the Certificate of Analysis Parameters. The corresponding time for the product in other packages is 6 months.

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