

## PRODUCT SPECIFICATION

# Diethanolamine (DEA 99%)

<b>Chemical Name</b>	: Diethanolamine		
<b>Molecular Formula</b>	: C <sub>4</sub> H <sub>11</sub> NO <sub>2</sub>	<b>Molecular Weight</b>	: 105.14
<b>HS Code</b>	: 29221200	<b>CAS number</b>	: 111-42-2
<b>UN Code</b>	: Not Applicable	<b>DG Class/PKG GP</b>	: Not Applicable
<b>Applications</b>	: DEA is used as foam stabilizers, emulsifiers and viscosity builders in personal care products such as shampoos, cosmetics and dishwashing liquids. It is also used for treating natural and refinery gas and liquid streams. Carbon dioxide and hydrogen sulfide are the principle contaminants removed.		
<b>Packaging</b>	: 225kg per drum, 18MT per 20-ft FCL container 20MT per Isotank		

Characteristics	Unit	Guaranteed Values
Appearance	-	Clear Liquid
Purity (DEA)	WT%	99.0 Min
MEA	WT%	0.50 Max
TEA	WT%	0.50 Max
Color	APHA	15 Max
Water	WT%	0.15 Max