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## TRIMETHYLAMINE (TMA)

<b>CAS NO.</b>	:	75-50-3
<b>NATURE</b>	:	It is available as anhydrous (liquified gas under pressure) & 30% solution (Clear, colourless liquid)
<b>PHYSICAL PROPERTIES</b> (FOR ANHYDROUS)	Empirical Formula	C <sub>3</sub> H <sub>9</sub> N
	Structural Formula	(CH <sub>3</sub> ) <sub>3</sub> N
	Molecular Wt.	59.11
	Refractive Index	1.345
	Colour (APHA) Max	15
	Solubility in Water	Soluble
	Autoignition Temperature	190°C
	LEL	2 vol%
HEL	11.6 vol%	
Critical Temperature	160.1°C	
Critical Pressure	40.2 Atm.	

	For Anhydr.	30% soln.
Sp. Gravity at 25°C	0.627	0.930
Boiling Point	2.9°C	38°C
Freezing Point	-117.3°C	-5°C
Flash Point	--	<0°C
Vapour Pressure	°C kg/cm <sup>2</sup>	°C kg/cm <sup>2</sup>
	20 1.9	20 0.5
	40 3.2	40 1.2
	60 6.2	60 2.4

### SPECIFICATIONS

Content	Unit	Anhydrous	30% Solution
Purity	%	99.50 min	30.00 min
Water	%	00.20 max	69.70 max
Ammonia	%	00.02 max	00.02 max
Other Amines/NOI	%	00.25 max	00.20 max



### APPLICATION AREAS :

<b>DRUGS &amp; PHARMACEUTICALS</b>	:	Choline derivatives manufactured from TMA are used in medication of liver disorders. Used directly as Acid binder in the manufacture of Sulpha Drugs.
<b>AGROCHEMICALS</b>	:	To manufacture plant growth controllers like Cycocel or Chloromequat Chloride (2-Chloroethyl trimethyl ammonium chloride)
<b>ANIMAL FEED</b>	:	Animal/poultry feed additives like Choline Chloride is manufactured from TMA.
<b>ION EXCHANGE</b>	:	To manufacture Ion exchange Resins based on Chloromethylated Polystyrene.
<b>SURFACE ACTIVE AGENTS</b>	:	Use in the manufacture of Alkyl Quaternary Ammonium Salts used as germicides and fabric softeners with antistatic properties.
<b>MISCELLANEOUS</b>	:	Acceleration of polymerisation of Methyl Methacrylate derivative. Quaternary ammonium salts of Trimethylamine are used as Phase Transfer Catalyst.
<b>PACKAGING</b>	:	Anhydrous & Aqueous solutions offered in bulk Road Tankers.  Aqueous solution is offered in 210 litre capacity UN Approved M.S. drums containing 170 kg net of TMA 30% Solution.  Small quantities of Anhydrous material can also be made available in cylinders provided by the customers on request.
<b>IMDG CLASS</b>	:	Anhydrous Class 2 Solution Class 3
<b>UN NO.</b>	:	Anhydrous 1083 Solution 1297
<b>E C NUMBER</b>	:	200-875-0