

## **i** GENERAL DESCRIPTION

Trimethylamine is a tertiary amine in which each hydrogen atom is substituted by a methyl group. It has a role as a human xenobiotic metabolite and an E. coli metabolite. The method of large-scale production of methylamines is based on the catalytic amination of methyl alcohol with ammonia, a reaction which takes place in the gas phase at temperatures between 350-450°C, in the presence of an alumina catalyst. The product is extremely flammable. Vapors of product may form explosive mixture with air and oxygen.

## **Q** TECHNICAL QUALITY CONDITIONS

No.	Properties	U.M.	Admissibility conditions					
			Type 25		Type 30		Type 40	
			Sort A	Sort B	Sort A	Sort B	Sort A	Sort B
1	Appearance	-	clear liquid without mechanical impurities					
2	Color		colorless to light yellowish					
3	Tri-methylamine content		min. 25		min. 30		min. 40	
4	Total chemical impurities, of which:	%	max. 0.125	max. 0.2	max. 0.15	max. 0.18	max. 0.2	max. 0.32
	- ammonia	%	max. 0.05	-	max. 0.05	-	max. 0.08	-
	- mono-methylamine	%	max. 0.025	-	max. 0.03	-	max. 0.04	-
	- methanol	%	max. 0.025	-	max. 0.03	-	max. 0.04	-
	- di-methylamine	%	max. 0.075	-	max. 0.09	-	max. 0.12	-
	- other amine	%	max. 0.05	-	max. 0.06	-	max. 0.08	-

## **🧪** USES

- in organic synthesis for manufacturing of quaternary ammonium salts and choline chloride, corrosion inhibitors, emulsifiers, insecticides, fungicides, solvents, drugs, ion exchanger resins, dyes, detergents, photographic substances

## **📦** PACKING

- steel railway tanks
- road tanks
- containers
- metallic barrels

## **🏠** STORAGE

product is stored in steel cylinder and vertical pressure tanks, outside, away from heat action, connected to grounding belt; product packed in drums is stored in its original packing, in dry and clean rooms provided with ventilation; maximum recommended temperature for storage is of 40°C

## **🚚** TRANSPORT

transport of product is made by steel railway tanks, road tankers, metallic barrels, containers or covered means of transport, according to ADR prescriptions