

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.

TECHNICAL QUALITY CONDITIONS

No.	Properties	U.M.	Admissibility conditions	
			Type A	Type B
1	Trimethylamine content	%	min. 99.5	min. 99.2
2	Total chemical impurities, of which:	%	max. 0.5	max. 0.8
	- ammonia	%	max. 0.2	max. 0.2
	- water	%	max. 0.4	max. 0.5
	- monomethylamine	%	max. 0.1	max. 0.1
2	- methanol	%	max. 0.1	max. 0.1
	- dimethylamine	%	max. 0.3	max. 0.3
	- other amines	%	max. 0.2	max. 0.2

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, pressure resistant
- containers, pressure resistant

Maximum filling grade of packing is: 0.56 kg/l

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/containers, pressure resistant, according to ADR prescriptions