Alkylamines

TECHNICAL DIMETHYLAMINE

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GENERAL DESCRIPTION

Dimethylamine is a secondary aliphatic amine where both N-substituents are methyl. It has a role as a metabolite and it is a member of methylamines group. 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 350-450ºC, 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	Dimethylamine content	-	min. 99.5	min. 99.2
2	Total chemical impurities, of which:	%	max. 0.5	max. 0.8
	- ammonia	%	max. 0,3	-
	- water	%	max. 0.5	max. 0.7
	- monomethylamine	%	max. 0.4	-
	- methanol	%	max. 0.1	-
	- trimethylamine	%	max. 0.3	-
	- other amines	%	max. 0.2	-

USES

- in organic synthesis for manufacturing of corrosion inhibitors, insecticides, fungicides, solvents, drugs, ion exchangers, chemical fibers, polymers and polymerization catalysts, vulcanization accelerators, photographic substances

PACKING

- steel railway tanks, pressure resistant
- containers, pressure resistant

Maximum filling grade of packing is: 0.59 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 tank/containers pressure resistant, according to ADR prescriptions