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Technical Data Sheet

Tetramethylammonium chloride (TMAC)

Product Information

Chemical Name	Tetramethylammonium chloride
CAS #	75-57-0
Formula	C4H12CIN
Molecular Weight	109.6
Synonyms	TMAC, Methanaminium, N,N,N-trimethyl-, chloride
	N,N,N-trimethylmethanaminium chloride

Chemical Structure

CI- N+

Description

TMAC is a kind of white crystal powder,Incompatible with strong oxidizing agents, water. Hygroscopic. It can be used as polarographic analysis reagents which is widely used in the electronics industry.

Physical Properties

Appearance	White crystal powder
Melting point, °C .	>300 °C(lit.)
Density @ 20°C, g/cm3	1,17 g/cm ³
Water Solubility	>60 g/100 ml (20 °C)

Specification

Appearance	White crystal powder	
Assay,%	≥99.00	
Water ,%	≪0.5	

Safety

Toxic if swallowed. Harmful in contact with skin. Irritating to eyes, respiratory system and skin. Always refer to the Material Safety Data Sheet (MSDS)

Applications

It can be used as polarographic analysis reagents which is widely used in the electronics industry.
Tetramethylammonium chloride is the phase transfer catalyst in organic synthesis with its catalytic activity being stronger than triphenylphosphine and triethylamine. At room temperature, it is a white crystalline powder, and is volatile, irritant, and easy to absorb moisture. It is easily soluble in methanol, soluble in water and hot ethanol but insoluble in ether and chloroform. Being heated to above 230 °C causes its decomposition into trimethylamine and methyl chloride. Median lethal dose (mice, intraperitoneal) is around 25mg/kg. It is also used for the synthesis of liquid crystal epoxy compound, and Pope and polarographic analysis, as well as electronic industry.

Packaging

25kg per bag,14MT/FCL without pallet

Storage & Handling

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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