

**TECHNICAL DATA SHEET**

PRODUCT NAME	BETHANECHOL CHLORIDE
CAS #	590-63-6
EINECS	209-686-8
MOLECULAR WEIGHT	196.67 g·mol ⁻¹
MOLECULAR FORMULA	C ₇ H ₁₇ ClN ₂ O ₂
COMPLIES WITH	USP

Sr. No.	TEST	SPECIFICATIONS
01.	Characters	White crystalline powder
02.	Identification A: Infrared absorption <197M>	Complies
03.	Identification B: Abs. of choline chloride	Complies
04.	Identification C: Precipitation with iodine	Complies
05.	Identification C: Chlorides <191>	Complies
06.	pH <791>	5.5 - 6.5
07.	Loss on drying <731>	≤ 1.0 %
08.	Residue on ignition <281>	≤ 0.1 %
09.	Heavy Metals <231>	≤ 30 ppm
10.	Chloride content	17.70 % - 18.30 %
11.	Organic Impurities (By HPLC)	
	- β-Methylcholine chloride	≤ 0.2 %
	- Individual unknown impurities	≤ 0.1 %
	- Total impurities	≤ 0.6 %
12.	Assay (By HLPC) <621>	98.0 % - 101.5 %
13.	Residual solvents	
	- Chloroform	≤ 60 ppm
	- Methanol	≤ 300 ppm
	- Ethanol	≤ 500 ppm
	- Acetone	≤ 50 ppm
	- Isopropanol	≤ 1000 ppm
	- Acetonitrile	≤ 250 ppm
14.	Particle size distribution	
	- D (10%)	≤ 10 µm
	- D (50%)	≤ 75 µm
	- D (90%)	≤ 250 µm

Storage conditions: Store in tightly closed containers, in a dry and well ventilated place.