



Physio-chemical characteristics of the Active Ingredient	
General Name	2 chloroethyl) trimethyl ammonium chloride
Common Names	Chlormequat chloride, choline dichloride, chlorocholine chloride
Chemical Structure	$\text{ClCH}_2\text{CH}_2\text{N}^+(\text{CH}_3)_3\text{Cl}^-$
Empirical Formula	$\text{C}_5\text{H}_{13}\text{Cl}_2\text{N}$
Molecular weight	158.1
Description	white crystalline substance with a fish-like odour
Purity, Minimum	97% w/w (Minimum)
Melting Point	235° C
Acidity (As H_2SO_4)	0.3
Percent by mass, Maximum Solubility	In water > 1 Kg/Kg (at 20 °C), in ethanol 320, dichloromethane ethylacetate, n-hexane <0.1, acetate 0.2, chloroform 0.3 (all in g/Kg at 20 °C)
Vapour Pressure	<0.01 mPa (at 20 °C)
Reactivity	It is incompatible with strong oxidizing agents. It is corrosive to unprotected metals.
Storage Precaution	It is hygroscopic and should be stored under ambient temperatures, protected from moisture.
Toxicity: LD50 rats	836 mg/kg b.w Toxicity class WHO III
Packing	Packed in lacquered MS drums with polyethylene lining
Other Information	UN/ID NUMBER: UN 2811 HAZARD CLASS: 6.1 Subsidiary risk: None Packing group: III
Formulations	Formulated as soluble liquid (SL) with chlormequat chloride content 50% w/w.