

MADQUAT MC 75

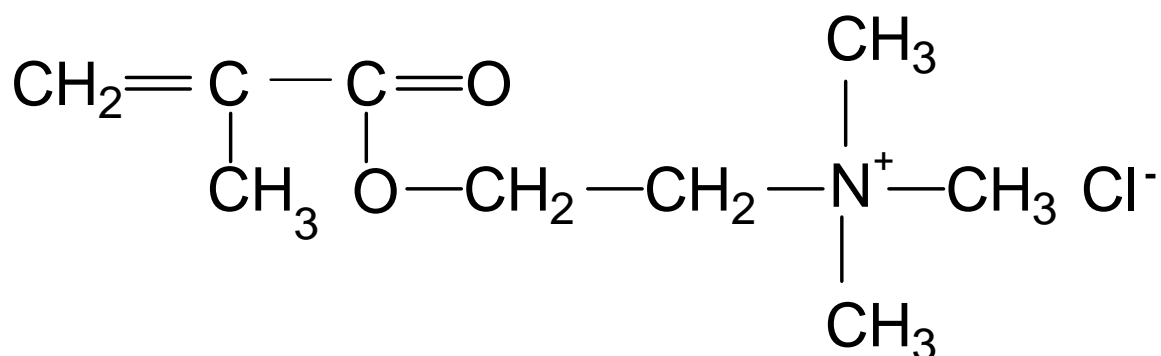
METHACRYLOXYETHYLTRIMETHYL AMMONIUM CHLORIDE

Cas number : 5039-78-1

EINECS number : 225-733-5

MADQUAT MC 75 is the quaternization product of dimethylaminoethyl methacrylate by methyl chloride

CHEMICAL FORMULA



Molecular weight : 207.2

SPECIFICATIONS (Ref. N102FS001)

	SPECIFICATION	METHOD
Appearance	Clear limpid liquid	LCU 200
Colour (APHA)	50 maximum	LCU 201
Water content	24-26 % maximum	LCU 202
Inhibitor content (MEHQ)	550 to 650 ppm	LCU 203
Polymer content	Negative	LCU 204
pH at 10 % (demi-water)	3 - 5	LCU 205

MADQUAT MC 75 is delivered in water solution

HANDLING AND SAFETY ADVISES

We advise you to read carefully the safety data sheet.

MADQUAT MC 75

MAIN PHYSICAL CHARACTERISTICS

Density	at 20°.....	1.104
	at 25°C.....	1.101
Refractive index, n _D	at 20°C.....	1.461
	at 25°C.....	1.463
Viscosity	at -10°C.....	400 mPa.s
	at 0°C.....	170 mPa.s
	at 20°C.....	43 mPa.s
	at 40°C.....	16 mPa.s
Freezing point	below - 25°C

NOTE : At low temperature, MADQUAT MC 75 viscosity is very high.

CHEMICAL PROPERTIES- APPLICATIONS

MADQUAT MC 75 is soluble in water, ethanol and isopropanol, and insoluble in esters, ketones and hydrocarbons.

MADQUAT MC 75 features a good resistance to hydrolysis, for pH values not exceeding 7.

MADQUAT MC 75 can be polymerised in solution, suspension or emulsion, using a free radical type catalyst (e.g. peroxydes, redox system, azo compounds).

MADQUAT MC 75 is a cationic monomer, which can be homopolymerised and copolymerised with other monomers, such as MADAME, ADAME, acrylamide, methacrylamide, N-methylolacrylamide, acrylonitrile, methyl acrylate, methyl methacrylate, styrene, acrylic and methacrylic acids. This gives polymers with quaternary ammonium groups, hence high polarity and strong affinity for anionic substances. Such properties can be used in various applications :

- manufacture of flocculating agents to clarify water containing solids in suspension
- anti-static coatings
- conductive coatings
- polymers additives, for dispersal of pigments and titanium dioxide
- additives like flocculating or dispersing agents in pulp and paper industry for filtration improvement
- improvement of the tinctorial properties of acrylic and cellulose fibers.

PACKAGING AND STORAGE

MADQUAT MC 75 is delivered :

- in stainless steel tanker lorries
- in polyethylene drums of 220 litres, loaded at 210 kg
- in 1000 litres containers loaded at 1000 kg :
 - inside : Blow moulded high density polyethylene
 - outside : galvanised and welded sheet steel housing.
- in 1 litre amber-coloured glass bottles, for sampling purposes.

When handling it, operators should be wearing goggles, rubber gloves and protective clothing.

Working areas must be kept properly ventilated, and any containers used for MADQUAT MC 75 must be kept tightly closed.

MADQUAT MC 75 can be pumped or transferred by air pressure.

MADQUAT MC 75 should be stored away from light, since it is affected by ultra violet light, and the storage temperature should not exceed 30°C. It must also be stored in an air atmosphere, since the presence of oxygen is essential to activate the inhibitor (MEHQ).

MADQUAT MC 75 normally stabilised, to allow polymers with very high molecular weights to be obtained.

MADQUAT MC 75 is commercially guaranteed for one month after delivery.

ACRYLIC MONOMERS BU/122031001/V7/07.16

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