

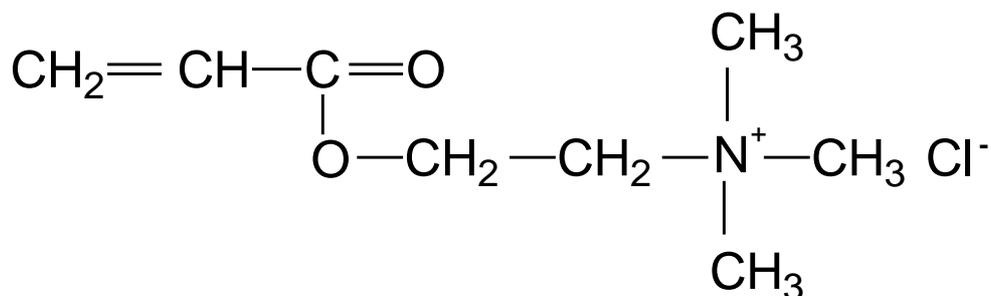
# ADAMQUAT MC 80

*Acryloxyethyltrimethyl ammonium chloride*

Cas number : 44992-01-0

EINECS number : 256-176-6

## CHEMICAL FORMULA



Molecular weight: 193,67

ADAMQUAT ® MC 80 is the quaternization product of ADAME (dimethylaminoethyl acrylate) by methyl chloride

## SPECIFICATIONS

	SPECIFICATION	METHOD
Appearance	Clear liquid	Visual
Colour (APHA)	100 maximum	ASTM D1209
Water content	21 % maximum	ASTM D1364
Inhibitor content (MEHQ)*	550 to 650 ppm	HPLC
Polymer content	Negative	Turbidity test
pH	6 - 8.5	Potentiometry

\* For remote destinations, Inhibitor standard is increased:  
Inhibitor content (MEHQ) is 650 to 750 ppm. All other properties and specifications remain the same.

ADAMQUAT MC 80 is delivered in water solution

## HANDLING AND SAFETY ADVISES

We advise you to read carefully the safety data sheet.

# ADAMQUAT MC 80

## Acryloxyethyltrimethyl ammonium chloride

### MAIN PHYSICAL CHARACTERISTICS

Molecular weight .....	193.67
Density at 20°C .....	1.132
Refractive index, $n_D$ at 20°C.....	1.482
Viscosity at 20°C .....	88 mPa.s
Freezing point.....	-25 °C

**NOTE:** At low temperature, ADAMQUAT MC 80 viscosity is very high.

### PACKAGING

ADAMQUAT MC 80 is delivered:

- in 25000 to 36000 liters stainless steel road tankcars
- in 25000 to 35000 liters stainless steel containers
- in 1000 litres containers loaded at 1000 kg
- inside: Blow moulded high density polyethylene
- outside: galvanised and welded sheet steel housing.

### STORAGE

ADAMQUAT MC 80 should be stored away from light and the storage temperature should not exceed 30° C. It must also be stored in air atmosphere since the presence of oxygen is essential to activate the inhibitor (MEHQ).

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 ADAMQUAT MC 80 must be kept tightly closed. ADAMQUAT MC 80 can be pumped or transferred by air pressure.

ADAMQUAT MC80 is proposed with two levels of Monomethyl Ether of HydroQuinone (MEHQ) depending on the destination.

### CHEMICAL PROPERTIES - APPLICATIONS

ADAMQUAT MC 80 is soluble in water, ethanol and isopropanol, and insoluble in esters, ketones and hydrocarbons.

ADAMQUAT MC 80 can be polymerised in solution, suspension or emulsion, using a free radical type catalyst (e.g. peroxides, redox system, azo compounds).

ADAMQUAT MC 80 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.

**Under these conditions, ADAMQUAT MC 80 is commercially guaranteed for one month after delivery.**

ACRYLIC MONOMERS BU/122041001/V8/12.23

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