

# MSA 99

MSA 99 is a solution of methanesulfonic acid. MSA 99 is an excellent catalyst providing high efficiency in esterification reactions. In general terms the reaction times with MSA 99 are significantly shorter than with other sulfonic acids or with sulfuric acid.

With MSA 99 it is possible to achieve products with light colors. The preferred temperature range for MSA 99 is between 60-180°C. The dosage of the catalyst is depending on the application between 0.05-1%.

## Physical Properties

Appearance	Clear, very faint yellow solution
CAS No.	75-75-2
Molecular formula	CH <sub>3</sub> SO <sub>3</sub> H
Molecular weight	96.1

## Specifications

Purity	≥99%
SO <sub>4</sub> <sup>2-</sup>	≤30ppm
Fe	≤5ppm
Pb	≤5ppm
Color (Hazen)	≤20
Cl <sup>-</sup>	≤10ppm

## Storage

MSA 99 has a shelf life of at least one year if stored correctly in its original closed packaging at room temperature. Exposure of the solution to the atmosphere or light may result in a slight yellow discoloration of the product or development of a light odour. Sensitive to frost.

## Packaging

250kg/drum

## Special advice for security

Information concerning:

- classification and labelling according to the regulations governing transport and hazardous chemicals
  - protective measures for storage and handling
  - safety measures in case of accident and fire
  - toxicity and ecological effects
- are given in our material safety data sheets.