

Technical information

METHANE SULFONIC ACID 99% (MSA 99)

Synonym: Methane Sulfuric Acid
CAS number: 75-75-2
Formula: CH₃SO₃H
HTS number.: 29041000
EINECS number: 200-898-6
Molecular Weight: 96.10

SPECIFICATION

Appearance	clear, colorless liquid
Purity (acidimetric)	99.0% min.
Cl	20 ppm max.
SO ₄	50 ppm max.
Fe	5 ppm max.
Heavy metal	5 ppm max.
Water	1% max.
Color on APHA scale	30 max.

PROPERTIES

Density	1.48 g/ml
Melting Point	20 °C
Boiling Point	200°C (atm) 167°C (10 mm)
Solubility	in water: complete in alcohol: complete in ether: complete

PACKAGING

250 kg UN-certified HMHDPE drums on pallets;
1200 kg UN-certified intermediate bulk containers (IBCs) on pallets

HEALTH & SAFETY, SHIPPING

Classification RID/ADR	class 8 / 34 c	C – Corrosive
UN nr	2586	
Codes / markings	R34 S26, 36, 45	



APPLICATIONS

- catalyst in (aromatic) esterifications, alkylations, olefinic additions and epoxidations
 - reactant in the synthesis of certain biologically active compounds and agricultural chemicals plus a variety of other products
 - production of water-free peracids
 - catalyst for unsaturated polyester manufacture
- * for detailed data on the benefits of MSA see our leaflet 'MSA, THE Catalyst for esterifications' (37355, 2 pages)*
- numerous uses of MSA are listed in our booklet 'MSA Properties/ Uses' (23185, 3 pages)

March 2010; MSA 99% 03190
Page 1 of 1