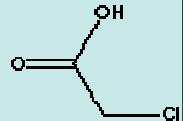


MONO CHLOROACETIC ACID

PRODUCT IDENTIFICATION

CAS NO.	79-11-8
EINECS NO.	201-178-4
FORMULA	CH ₂ ClCOOH
MOL WT.	94.50



H.S. CODE

TOXICITY

SYNOMYS

Chloroethanoic acid; Monochloroethanoic acid; ácido cloroacético (Spanish); Acide chloroacétique (French); alpha-Chloroacetic acid; MCA; Monochloroacetic Acid; Monochloorazijnzuur; Monochloressigsäure (German); Acidomonochloroacetic (Italian);

DERIVATION

acetic acid , chlorine

CLASSIFICATION

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	white solid
MELTING POINT	61 - 62 C
BOILING POINT	188 C (solid), 143 C (80% aqueous solution)
SPECIFIC GRAVITY	1.40 (solid), (1.20 80% aqueous solution)
SOLUBILITY IN WATER	Soluble
SOLVENT SOLUBILITY	Soluble in ether, chloroform, benzene, and alcohol
pH	<1 (80% aqueous solution)
VAPOR DENSITY	
AUTOIGNITION	
NFPA RATINGS	Health: 3; Flammability: 1; Reactivity: 0
REFRACTIVE INDEX	
FLASH POINT	126 C (solid), (1.20 80% aqueous solution)
STABILITY	Stable under ordinary conditions. Hygroscopic.

DESCRIPTION AND APPLICATIONS

Monochloroacetic acid, chlorinated simplest carboxylic acid, has electron-withdrawing atom (alpha-chlorine) on the next carbon to acid. Alpha-chlorine makes monochloroacetic acid more acidic than acetic acid. It is used as one of the first choice chemical intermediates for the production of;

- Carboxy Methyl Cellulose and Starch
- Phenoxyacetic Acid
- Thioglycolic Acid
- Cyanoacetic Acid / Malonates / Barbituric Acid
- Caffeine, Betaine, Vitamin B and pharmaceuticals
- Glycine
- Surfactants
- Indigo dyes
- Herbicides

SALES SPECIFICATION

APPEARANCE	white flakes
ASSAY	99.0% min
MELTING POINT	61 - 62 C
FREE ACID	0.2% max
IRON	10ppm max
HEAVY METALS	1ppm max
WATER	0.5% max

TRANSPORTATION

PACKING	25kgs in bag
HAZARD CLASS	6.1 (Packing Group: II)
UN NO.	1750, 1751

OTHER INFORMATION

Hazard Symbols: T N, Risk Phrases: 25-34-50, Safety Phrases: 23-36/37-45-61