

GLUTARIC ACID**1367**

March 2002

CAS No: 110-94-1
RTECS No: MA37400001,5-Pentanedioic acid
1,3-Propanedicarboxylic acid
 $C_5H_8O_4$ / $COOH(CH_2)_3COOH$
Molecular mass: 132.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Water spray, powder.
EXPLOSION			

EXPOSURE			
Inhalation	Cough. Sore throat.	Local exhaust or breathing protection.	Fresh air, rest.
Skin	Redness. Pain.	Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
Eyes	Pain. Redness.	Safety spectacles or safety goggles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Abdominal pain.	Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL

Sweep spilled substance into covered containers; if appropriate, moisten first to prevent dusting. Then wash away with plenty of water.

PACKAGING & LABELLING**EMERGENCY RESPONSE****STORAGE**

Separated from bases.

IMPORTANT DATA

Physical State; Appearance

COLOURLESS CRYSTALS

Chemical dangers

The solution in water is a medium strong acid.

Occupational exposure limits

TLV not established.

Routes of exposure

The substance can be absorbed into the body by inhalation of its aerosol.

Inhalation risk

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

Effects of short-term exposure

The substance is irritating to the eyes, the skin and the respiratory tract.

PHYSICAL PROPERTIES

Boiling point (decomposes): 302-304°C

Melting point: 98°C

Density: 1.4 g/cm³

Solubility in water, g/100 ml at 20°C: 63.9

Octanol/water partition coefficient as log Pow: -0.47/-0.08 (calculated)

ENVIRONMENTAL DATA

NOTES

ADDITIONAL INFORMATION

LEGAL NOTICE

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information