

ETHYL ACETOACETATE

1024
April 2000

CAS No: 141-97-9
RTECS No: AK5250000

Acetoacetic acid ethyl ester
Ethyl acetylacetate
3-Oxobutanoic acid ethyl ester
1-Ethoxybutane-1,3-dione
 $C_6H_{10}O_3$ / $CH_3COCH_2COOC_2H_5$
Molecular mass: 130.14

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Combustible.	NO open flames.	Powder, water spray, foam, carbon dioxide.
EXPLOSION	Above 70°C explosive vapour/air mixtures may be formed.	Above 70°C use a closed system, ventilation.	

EXPOSURE		PREVENT GENERATION OF MISTS!	
Inhalation	Cough. Sore throat.	Ventilation.	Fresh air, rest.
Skin	Redness.	Protective gloves.	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Eyes	Redness. Pain.	Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion		Do not eat, drink, or smoke during work.	Rinse mouth. Give plenty of water to drink. Rest.

SPILLAGE DISPOSAL	PACKAGING & LABELLING
Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Wash away remainder with plenty of water.	

EMERGENCY RESPONSE	STORAGE
NFPA Code: H 2; F 2; R 0	Separated from strong oxidants. Ventilation along the floor. Well closed.

IMPORTANT DATA

Physical State; Appearance

COLOURLESS LIQUID, WITH CHARACTERISTIC ODOUR.

Physical dangers

The vapour is heavier than air.

Chemical dangers

Reacts with strong oxidants.

Occupational exposure limits

TLV not established.

MAK not established.

Routes of exposure

The substance can be absorbed into the body by inhalation.

Inhalation risk

A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C ; on spraying or dispersing, however, much faster.

Effects of short-term exposure

The substance irritates the eyes, the skin and the respiratory tract.

PHYSICAL PROPERTIES

Boiling point: 180.8°C

Melting point: -45°C

Relative density (water = 1): 1.021

Solubility in water, g/100 ml at 20°C: 2.86

Vapour pressure, kPa at 20°C: 0.1

Relative vapour density (air = 1): 4.48

Flash point: 70°C c.c.

Auto-ignition temperature: 295°C

Explosive limits, vol% in air: 1-54

Octanol/water partition coefficient as log Pow: 0.27

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