

Glycine

Company Information

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Product Identification

【Product Name】

Monazol

【Synonyms】

Aminoacetic acid

Glycocoll

【CAS】

[56-40-6](#)

【Formula】

C₂H₅NO₂

【Molecular Weight】

75.069999999999993

【EINECS】

200-272-2

【RTECS】

MB7600000

【RTECS Class】

Mutagen

【Merck】

13,4504

【Beilstein/Gmelin】

635782

【Beilstein Reference】

4-11-00-00122

Physical and Chemical Properties

【Appearance】

White crystals.

【Solubility in water】

250 g/L

【Melting Point】

83

【Boiling Point】

181

【Vapor Pressure】

.012

【Density】

1.64 g/cm³

【pKa/pKb】

2.37 (pKa)

【Partition Coefficient】

-1.03

【Heat Of Combustion】

-974.1 kJ/mol

【Usage】

Biologically significant amino acid.

First Aid Measures

【Ingestion】

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

【Inhalation】

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

【Skin】

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

【Eyes】

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Handling and Storage

【Storage】

Store in a cool, dry place. Store in a tightly closed container.

【Handling】

Wash thoroughly after handling. Use only in a well ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Hazards Identification

【Inhalation】

Low hazard for usual industrial handling.

【Skin】

Low hazard for usual industrial handling. May be absorbed through the skin.

【Eyes】

Dust can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

【Ingestion】

Ingestion of large amounts may cause gastrointestinal irritation. Low hazard for usual industrial handling.

【Hazards】

LOW. Ignites at very high temperatures.

【EC Safety Phrase】

S 22 24/25

Exposure Controls/Personal Protection

【Personal Protection】

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

【Respirators】

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

【Exposure Effects】

mental status changes, cerebral edema, seizures, and coma have been reported following systemic absorption of glycine irrigation solutions. Acute exposure - neurologic: mental status changes, cerebral edema, seizures, and coma have been reported following systemic absorption of glycine irrigation solutions.

【Poison Class】

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Fire Fighting Measures

【Flash Point】

99.5

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. To extinguish fire use water spray, dry chemical, carbon dioxide, or chemical foam.

Accidental Release Measures

【Small spills/leaks】

Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions.

Stability and Reactivity

【Stability】

Stable under normal temperatures and pressures.

【Incompatibilities】

Strong oxidizing agents.

【Decomposition】

Nitrogen oxides, carbon monoxide, carbon dioxide, ammonia.

Transport Information

【HS Code】

2922 49 10