

MEA Triazine 80%

H2S Scavenger

Product Overview

MEA Triazine, a derivative of triazine, is a highly effective hydrogen sulfide (H₂S) scavenger. In industrial settings, particularly in the oil and gas industry, it is extensively used to eliminate the toxic and corrosive properties of H₂S gas. This gas poses significant risks to health, safety, and materials. MEA Triazine is typically formulated as a 1,3,5-triazinane and appears as a clear to pale yellow liquid with a slight amine odor. It is soluble in water, making it suitable for use in aqueous applications.

MEA Triazine's effectiveness in removing H₂S from gas streams stems from its ability to react with H₂S and create water-soluble products. In the scavenging process, the MEA Triazine solution and gas stream containing H₂S are mixed in a scrubber or contactor. The reaction efficiency depends on various factors, including the concentration of MEA Triazine, temperature, contact time, and the presence of other compounds in the gas stream.

Mechanism of Action

The scavenging process involves a chemical reaction between MEA Triazine and H₂S. MEA Triazine reacts with H₂S to form a non-volatile, water-soluble product. This reaction typically occurs in a scrubber or a contactor where the gas stream containing H₂S is brought into contact with the MEA Triazine solution. The reaction efficiency depends on several factors, including the concentration of MEA Triazine, contact time, temperature, and the presence of other compounds in the gas stream.

Chemical Structure of MEA Triazine

MEA Triazine, also known as Monomethylamine Triazine, is a chemical compound that features a triazine ring as its fundamental structure. The triazine ring is a heterocyclic compound composed of three nitrogen atoms and three carbon atoms, arranged alternatively in a six-membered ring. The basic configuration of a triazine ring can be depicted as a hexagonal ring comprising nitrogen and carbon atoms arranged alternately.

Specifications

Molecular Formula	C9H21N3O3
Chemical Name	Hexahydro-1,3,5-tris(hydroxyethyl)-s-Triazine
Appearance.....	Clear to light yellow liquid.
Color ,.....	0 - 60 APHA
Density.....	1.17-1.20
Free Monoethanolamine	1% - 1.4 wt%
MEA-Triazine Content	79% - 80.5%
Methanol	<1 wt%
pH	10.0 - 12.

Packaging

25 Kg Pail
 220 Kg Barrel
 1150 Kg IBC Totes

Product Benefits

Using MEA Triazine, particularly in an 80% concentration, as a H₂S scavenger in the oil and gas industry offers several significant benefits. This high concentration enhances efficiency and effectiveness in controlling hydrogen sulfide, a toxic and corrosive gas prevalent in these industries. Here are some of the key benefits:

High Efficiency in H₂S Removal: MEA Triazine is highly effective at scavenging hydrogen sulfide from gas streams. The 80% concentration ensures a potent reaction with H₂S, resulting in its rapid removal. This efficiency is critical in maintaining safe levels of H₂S, especially in high-pressure and high-volume environments.

Improved Safety: By effectively removing H₂S, MEA Triazine helps significantly reduce the risks associated with H₂S exposure. These include health hazards to personnel (like respiratory issues and potential fatality at high concentrations) and the risk of corrosion to equipment, which can lead to operational failures and accidents.

Cost-Effectiveness: While MEA Triazine is a specialized chemical, its effectiveness means that smaller quantities are needed to achieve the desired H₂S removal compared to less concentrated or less effective scavengers. This can lead to cost savings regarding the amount of chemicals used and the associated handling and storage costs.

Ease of Application: MEA Triazine can be easily integrated into existing systems without significant modifications. Its liquid form and solubility in water make it straightforward to handle and apply in various operational settings.

Reduced Corrosion and Equipment Wear: By effectively removing H₂S, MEA Triazine helps prolong the life of pipelines, storage vessels, and processing equipment. This reduction in corrosion and wear translates to lower maintenance costs and fewer operational interruptions.

Compliance with Environmental and Safety Regulations: MEA Triazine assists in complying with environmental and health safety regulations regarding H₂S emissions and exposure. This compliance is crucial for legal operations and maintaining a company's social license.

Versatility in Applications: MEA Triazine is suitable for various oil and gas industry applications, including upstream (exploration and production) and downstream (refining and distribution) operations.

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