

Common Name: **2-(2-AMINOETHOXY)ETHANOL**

Synonyms: DGA; Diglycolamine

CAS No: 929-06-6

 Molecular Formula: C₄H₁₁NO₂

RTK Substance No: 0073

 Description: Colorless liquid with a faint, fish-like or *Amine* odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
3 - Health 1 - Fire 0 - Reactivity DOT#: UN 3055 ERG Guide #: 154 Hazard Class: 8 (Corrosive)	2-(2-Aminoethoxy)Ethanol may burn, but does not readily ignite. Use dry chemical, CO ₂ , water spray or foam as extinguishing agents. Water or foam may cause frothing. DO NOT use solid streams of water. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Nitrogen Oxides</i> and <i>Ammonia</i> . Use water spray to keep fire-exposed containers cool.	2-(2-Aminoethoxy)Ethanol reacts violently with STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC). 2-(2-Aminoethoxy)Ethanol reacts with REDUCING AGENTS (such as LITHIUM, SODIUM, ALUMINUM and their HYDRIDES) to produce flammable and explosive <i>Hydrogen gas</i> . 2-(2-Aminoethoxy)Ethanol is not compatible with ISOCYANATES; HALOGENATED ORGANICS (such as TRICHLOROETHANE and METHYLENE CHLORIDE); METALS and their ALLOYS (such as COPPER, ZINC, and GALVANIZED IRON); PHENOLS; ALCOHOLS; EPOXIDES; ANHYDRIDES; and ACID HALIDES.

SPILL/LEAKS

Isolation Distance:

Spill: 50 meters (150 feet)

Fire: 800 meters (1/2 mile)

Absorb liquids in vermiculite, dry sand, earth, or a similar material and place into sealed containers for disposal.

Use only non-sparking tools and equipment, especially when opening and closing containers of

2-(2-Aminoethoxy)Ethanol.

DO NOT wash into sewer.

PHYSICAL PROPERTIES

Odor Threshold:	<i>Amine</i> odor
Flash Point:	255°F (124°C)
LEL:	2.6%
UEL:	11.7%
Auto Ignition Temp:	694°F (368°C)
Vapor Density:	3.6 (air = 1)
Vapor Pressure:	0.01 mm Hg at 68°F (20°C)
Specific Gravity:	1.1 (water = 1)
Water Solubility:	Soluble
Boiling Point:	430°F (221°C)
Melting Point:	10°F (-12°C)
Molecular Weight:	105.2
pH:	11.8

EXPOSURE LIMITS

 No occupational exposure limits have been established for **2-(2-Aminoethoxy)Ethanol**.

PROTECTIVE EQUIPMENT

Gloves:	Silver Shield®/4H® (>4-hr breakthrough)
Coveralls:	Tychem® fabrics; Zytron® 300; Saint-Gobain ONESuit® TEC; and Trellechem® fabrics (>8-hr breakthrough for <i>Diethylamine</i>)
Respirator:	Supplied air or SCBA

HEALTH EFFECTS

Eyes:	Irritation and burns
Skin:	Irritation and burns with redness and blisters
Inhalation:	Nose, throat and lung irritation with coughing and severe shortness of breath (pulmonary edema)

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 30 minutes. Remove contact lenses if worn. Seek medical attention.

Quickly remove contaminated clothing and wash contaminated skin with large amounts of water. Seek medical attention.

Begin artificial respiration if breathing has stopped and CPR if necessary.

Transfer promptly to a medical facility

Medical observation is recommended as symptoms may be delayed.