

Common Name: **ALLYL ALCOHOL**

Synonyms: 2-Propen-1-ol; Allylic Alcohol; Vinylcarbinol

CAS No: 107-18-6

Molecular Formula: C₃H₆O

RTK Substance No: 0036

Description: Colorless liquid with a mustard-like odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<p>4 - Health</p> <p>3 - Fire</p> <p>1 - Reactivity</p> <p>DOT#: UN 1098</p> <p>ERG Guide #: 131</p> <p>Hazard Class: 6.1 (Poison)</p>	<p>Allyl Alcohol is a FLAMMABLE LIQUID.</p> <p>Use dry chemical, CO₂, water spray or alcohol-resistant foam as extinguishing agents.</p> <p>POISONOUS GASES ARE PRODUCED IN FIRE.</p> <p>CONTAINERS MAY EXPLODE IN FIRE.</p> <p>Use water spray to keep fire-exposed containers cool.</p> <p>Vapor is heavier than air and may travel a distance to cause a fire or explosion far from the source.</p> <p>Vapors may travel to a source of ignition and flash back.</p>	<p>Allyl Alcohol will explode upon contact with SULFURIC ACID.</p> <p>Allyl Alcohol will react with CARBON TETRACHLORIDE to form potentially explosive <i>halogenated epoxides</i> (such as <i>Dichlorobutylene</i> and <i>Trichlorobutylene Oxides</i>).</p> <p>Allyl Alcohol is not compatible with STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE); TRIAZENES; BROMOMELAMINE; OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); NITRIC ACID; CHLOROSULFONIC ACID; PHOSPHORUS TRICHLORIDE; and DIALLYL PHOSPHITE.</p>

SPILL/LEAKS

Isolation Distance:

Small Spills: 30 meters (100 feet)

Large Spills: 60 meters (200 feet)

Fire: 800 meters (1/2 mile)

Absorb liquids in vermiculite, dry sand, earth, or a similar material and deposit in sealed containers.

Keep **Allyl Alcohol** out of confined spaces, such as sewers, because of the possibility of an explosion.

DO NOT wash into sewer.

Very toxic to aquatic organisms.

PHYSICAL PROPERTIES

Odor Threshold:	0.8 to 1.1 ppm
Flash Point:	70°F (21°C)
LEL:	2.5%
UEL:	18%
Auto Ignition Temp:	713°F (378°C)
Vapor Density:	2 (air = 1)
Vapor Pressure:	17.2 mm Hg at 68°F (20°C)
Specific Gravity:	0.9 (water = 1)
Water Solubility:	Miscible
Boiling Point:	206°F (97°C)
Molecular Weight:	58.1

EXPOSURE LIMITS

OSHA:	2 ppm, 8-hr TWA
NIOSH:	2 ppm, 10-hr TWA; 4 ppm, STEL
ACGIH:	0.5 ppm, 8-hr TWA
IDLH LEVEL:	20 ppm
PAC LEVELS:	PAC-1 = 0.09 ppm; PAC-2 = 1.7 ppm; PAC-3 = 13 ppm

PROTECTIVE EQUIPMENT

Gloves:	Butyl, Silver Shield®/4H® and Viton (>8-hr breakthrough)
Coveralls:	DuPont Tychem® CPF 4, BR and LV, CSM, Responder®, and TK; Kappler Zytron® 400; and Saint-Gobain ONESuit®PRO (>8-hr breakthrough)
Respirator:	>0.5 ppm -full facepiece APR with Organic vapor filters >5 ppm - Pressure demand supplied air >20 ppm – Pressure demand SCBA

HEALTH EFFECTS

Eyes:	Irritation and burns
Skin:	Irritation, burns and blisters
Inhalation:	Nose, throat and lung irritation with coughing, phlegm and shortness of breath (pulmonary edema) Headache, dizziness and passing out

FIRST AID AND DECONTAMINATION

Remove	the person from exposure.
Flush	eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn. Seek medical attention immediately.
Quickly	remove contaminated clothing. Wash contaminated skin with large amounts of water. Seek medical attention.
Begin	artificial respiration if breathing has stopped and CPR if necessary.
Transfer	to a medical facility.
Medical	observation is recommended as symptoms may be delayed.