

Common Name: **o-PHENYLPHENOL**

Synonyms: 2-Biphenylol; 2-Hydroxydiphenyl; 2-Phenylphenol

CAS No: 90-43-7

 Molecular Formula: C₁₂H₁₀O

RTK Substance No: 1439

Description: White, buff, to light lavender, crystalline solid

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
3- Health 1 - Fire 0 - Reactivity DOT#: None ERG Guide #: None Hazard Class: None	COMBUSTIBLE SOLID Use dry chemical, CO ₂ , water spray or alcohol-resistant foam as extinguishing agents. POISONOUS GASES ARE PRODUCED IN FIRE. Use water spray to keep fire-exposed containers cool. o-Phenylphenol in <i>powder</i> or <i>granular</i> form may form an ignitable vapor/air mixture in closed tanks or containers.	o-Phenylphenol is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE) and STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE).

SPILL/LEAKS

Isolation Distance:

Spill: 25 meters (75 feet)

 Moisten spilled material with *Alcohol* first, or use a HEPA-filter vacuum for clean-up, and place into sealed containers for disposal.

 Wash area with *Alcohol* and then with a strong soap and water solution.

DO NOT wash into sewer.

o-Phenylphenol is toxic to aquatic organisms.

PHYSICAL PROPERTIES

Flash Point:	255°F (124°C)
Auto Ignition Temp:	986°F (530°C)
Vapor Pressure:	1 mm Hg at 212°F (100°C)
Specific Gravity:	1.2 (water = 1)
Water Solubility:	Very slightly soluble
Boiling Point:	527° to 547°F (275° to 286°C)
Melting Point:	132° to 135°F (56° to 57°C)
pH:	11.2 to 11.6 (1% solution)
Molecular Weight:	170.2

EXPOSURE LIMITS

 No occupational exposure limits have been established for **o-Phenylphenol**.

The Protective Action Criteria values are:

 PAC-1 = 75 mg/m³

 PAC-2 = 500 mg/m³

 PAC-3 = 500 mg/m³

PROTECTIVE EQUIPMENT

Gloves:	Butyl and Viton (>8-hr breakthrough for <i>Hydroxyl compounds, aromatic</i>)
Coveralls:	Tyvek®
Respirator:	Small Spill: Full facepiece APR with <i>High efficiency filters</i> Large Spill or Fire: SCBA

HEALTH EFFECTS

Eyes:	Irritation
Skin:	Irritation
Inhalation:	Nose and throat irritation with coughing and wheezing

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 immediately.

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

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

Transfer promptly to a medical facility.