

P-AMINOPHENOL

Company Information

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Product Identification

【Product Name】

4-Aminophenol

【Synonyms】

4-Amino-1-hydroxybenzene

Boric acid, dilithium salt

Boric acid, lithium salt

Boron lithium oxide

Lithium borate

Lithium oxido-oxoborane

p-Aminophenol

p-Hydroxyaniline

【CAS】

[12007-60-2](#)

【CAS】

[123-30-8](#)

【CAS】

[13453-69-5](#)

【Formula】

B4Li2O7

【Formula】

BLiO2

【Formula】

C6H7NO

【Molecular Weight】

169.12

【Molecular Weight】

109.13

【Molecular Weight】

49.75

【EINECS】

204-616-2

【EINECS】

234-514-3

【EINECS】

236-631-5

【RTECS】

SJ5075000

【RTECS Class】

Mutagen; Reproductive Effector; Primary Irritant

【Merck】

12,5549

【Merck】

13,461

【Beilstein/Gmelin】

38327 (G)

【Beilstein/Gmelin】

385836

【Beilstein/Gmelin】

72589 (G)

【Beilstein Reference】

4-13-00-01014

【EC Index Number】

612-128-00-X

【EC Class】

Mutagenic Category 3; Harmful; Dangerous for the Environment

Physical and Chemical Properties

【Appearance】

White or reddish-yellow crystals or light brown powder. Turns violet when exposed to light.

【Appearance】

White powder.

【Appearance】

White solid.

【Solubility in water】

15 g/L

【Solubility in water】

28 g/L (25 C)

【Solubility in water】

Moderately soluble

【Melting Point】

845

【Melting Point】

918

【Melting Point】

186

【Boiling Point】

284

【Boiling Point】

1719

【Vapor Pressure】

0.002 (25 C)

【Density】

1.3 g/cm³

【Density】

1.4 g/cm³ (25 C)

【Density】

1.40 g/cm³

【pKa/pKb】

8.72 (pKb)

【Partition Coefficient】

.04

【Heat Of Vaporization】

【Heat Of Vaporization】

54.2 kJ/mol

【Heat Of Combustion】

-3171 kJ/mol

【Usage】

Dyeing textiles, hair, furs, feathers, photographic developer, pharmaceuticals, antioxidants, oil additives.

【Refractive Index】

1.5764 (20 C)

First Aid Measures

【Ingestion】

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

【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 immediately.

【Ingestion】

The toxicological properties of this substance have not been fully investigated. May cause nausea and vomiting.

【Inhalation】

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

【Inhalation】

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

【Inhalation】

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

【Skin】

May cause skin irritation.

【Skin】

Get medical aid immediately. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

【Skin】

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

【Skin】

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

【Eyes】

May cause eye irritation.

【Eyes】

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

【Eyes】

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

mmediately.

Handling and Storage

【Storage】

Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

【Storage】

Keep containers tightly closed. Store protected from moisture. Store in a cool, dry area away from incompatible substances.

【Storage】

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

【Handling】

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep from contact with moist air and steam.

【Handling】

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

【Handling】

Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Do not ingest or inhale.

Hazards Identification

【Ingestion】

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

【Inhalation】

Causes respiratory tract irritation. May cause methemoglobinemia, cyanosis, convulsions, tachycardia, dyspnea, and death. May cause asthmatic attacks due to allergic sensitization of the respiratory tract.

【Skin】

Causes skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

【Eyes】

Causes eye irritation.

【Ingestion】

Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause methemoglobinemia, cyanosis, convulsions, and death.

【Hazards】

Containers may explode when heated.

【EC Risk Phrase】

R 20/22 50/53 68

【EC Risk Phrase】

R 36/37/38

【EC Safety Phrase】

S 22 24/25

【EC Safety Phrase】

S 26 36

【EC Safety Phrase】

S 28 36/37 60 61

【UN (DOT)】

2512

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.

【Respirators】

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

【Exposure Effects】

Acute poisoning may cause rapid heart rate and rapid breathing. Severe headache, CNS disturbances, and tremor may occur. A high incidence of gynecological disorders and excess frequency of spontaneous abortions have been noted. The fetal liver can n-oxygenate aniline to form phenylhydroxylamine. Fetal effects include higher levels of methemoglobin than those found in the mother. Fetal poisoning may occur.
No data were available to assess the potential effects of exposure to aniline during lactation.
No information about possible male reproductive effects was found in available references at the time of this review

【Exposure Effects】

The toxicological properties of this substance have not been fully investigated.

【Poison Class】

3

【Poison Class】

3 (Strong toxins)

Fire Fighting Measures

【Flash Point】

124

【Autoignition】

> 250

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. To extinguish fire use water spray, dry chemical, carbon dioxide, or chemical foam.

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. To extinguish fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. To extinguish fire use water spray, dry chemical, carbon dioxide, or chemical foam.

【Fire Potential】

Combustible material: may burn but does not ignite readily.

Accidental Release Measures

【Small spills/leaks】

Vacuum or sweep up material and place into a suitable disposal container.

【Small spills/leaks】

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

【Small spills/leaks】

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions.

Stability and Reactivity

【Disposal Code】

14

【Incompatibilities】

Acids, chloroformates, strong oxidizing agents.

【Stability】

Has not been fully evaluated.

【Stability】

Stable under normal temperatures and pressures.

【Stability】

Stable under normal temperatures and pressures. May discolor on exposure to light.

【Incompatibilities】

Strong acids, strong oxidizing agents

【Incompatibilities】

Strong oxidizing agents.

【Decomposition】

Nitrogen oxides, carbon monoxide, carbon dioxide.

【Decomposition】

Oxides of boron.

【Combustion Products】

Fire may produce irritating, corrosive and/or toxic gases.

Transport Information

【UN Number】

2512

【Hazard Class】

6.1

【Packing Group】

III

【HS Code】

2840 20 90

【HS Code】

2922 29 00