



# Nitrobenzene

## Product Stewardship Summary

Chemical Name:	Nitrobenzene
Synonyms:	Nitrobenzol; Benzene; Mirbane Oil; Nitro-benzene
CAS Number:	98-95-3
EC (EINECS) Number:	202-716-0
Revision number:	1-2024

- **Chemical identification and uses:** Nitrobenzene is an organic combustible chemical. It is a water-insoluble pale-yellow oil with an almond-like odor that emits toxic fumes of nitrogen oxides upon combustion. Nitrobenzene is primarily used in the manufacture of aniline, which is a chemical used in the manufacture of polyurethane. It is also used in the manufacture of lubricating oils, dyes, drugs, pesticides, and synthetic rubber.
- **Potential exposures:** Exposure to nitrobenzene can occur in industrial/manufacturing facilities. Exposure to nitrobenzene can occur via inhalation or skin contact, causing irritation to the skin, eyes and respiratory tract and can result in methemoglobinemia (effects on the blood). The spleen is the target organ for occupationally exposed to this chemical. Nitrobenzene also damages the liver, kidneys, and central nervous system. Good manufacturing and industrial hygiene practices should be followed to prevent or reduce contact. See the Safety Data Sheet (SDS) for additional information.
- **Human Health hazards:** Nitrobenzene can be toxic if swallowed, in contact with skin or if inhaled. As a result of methemoglobinemia, fatigue dyspnea, dizziness, disturbed vision, shortness of breath can occur. It is classified as a possibly carcinogenic to humans by NTP and IARC. It may cause cancer or can cause damage to fertility or unborn child. It can cause damage to organs upon prolonged or repeated exposure. One should refer to the Safety Data Sheet (SDS) for additional information and any protective information.
- **Environmental Health hazards:** it is not considered harmful to aquatic life but should not be released into environment.
- Please contact us at [ESSPSCustomerCare@Honeywell.com](mailto:ESSPSCustomerCare@Honeywell.com) for more information. Additional information may also be found at the following links:

[EPA – Nitrobenzene](#)

[PubChem--Nitrobenzene](#)

*This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of all health and safety information. Additional information on the chemical is available through the applicable Material Safety Data Sheet which should be consulted before use of the chemical. The product stewardship summary does not supplant or replace required regulatory and/or legal communication documents. Statements concerning use of our products are made without warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.*