

p-Nitrophenol; CASRN 100-02-7

Human health assessment information on a chemical substance is included in the IRIS database only after a comprehensive review of toxicity data, as outlined in the [IRIS assessment development process](#). Sections I (Health Hazard Assessments for Noncarcinogenic Effects) and II (Carcinogenicity Assessment for Lifetime Exposure) present the conclusions that were reached during the assessment development process. Supporting information and explanations of the methods used to derive the values given in IRIS are provided in the [guidance documents located on the IRIS website](#).

STATUS OF DATA FOR p-Nitrophenol

File First On-Line 10/01/1991

Category (section)	Assessment Available?	Last Revised
Oral RfD (I.A.)	not evaluated	
Inhalation RfC (I.B.)	message	10/01/1991
Carcinogenicity Assessment (II.)	not evaluated	

I. Chronic Health Hazard Assessments for Noncarcinogenic Effects

I.A. Reference Dose for Chronic Oral Exposure (RfD)

Substance Name — p-Nitrophenol
CASRN — 100-02-7

Not available at this time.

I.B. Reference Concentration for Chronic Inhalation Exposure (RfC)

Substance Name — p-Nitrophenol
CASRN — 100-02-7

The health effects data for 4-nitrophenol were reviewed by the U.S. EPA RfD/RfC Work Group and determined to be inadequate for the derivation of an inhalation RfC. For additional information on health effects of this chemical, interested parties are referred to the documentation listed below.

U.S. EPA. 1980. Ambient Water Quality Criteria Document for Nitrophenols. Prepared by the Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Cincinnati, OH for the Office of Water Regulations and Standards, Criteria and Standards Division, Washington, DC. October. EPA 440/5-80-063.

U.S. EPA. 1985. Health and Environmental Effects Profile for Nitrophenols. Prepared by the Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Cincinnati, OH for the Office of Solid Waste and Emergency Response, Washington, DC.

U.S. EPA. 1987. Health Effects Assessment for Nitrophenols. Prepared by the Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Cincinnati, OH for the Office of Solid Waste and Emergency Response, Washington, DC.

Agency Work Group Review — 06/13/1991

Screening-Level Literature Review Findings — A screening-level review conducted by an EPA contractor of the more recent toxicology literature pertinent to the RfC for p-Nitrophenol conducted in November 2001 did not identify any critical new studies. IRIS users who know of important new studies may provide that information to the IRIS Hotline at hotline.iris@epa.gov or (202)566-1676.

EPA Contacts:

Please contact the IRIS Hotline for all questions concerning this assessment or IRIS, in general, at (202)566-1676 (phone), (202)566-1749 (FAX) or hotline.iris@epa.gov (internet address).

II. Carcinogenicity Assessment for Lifetime Exposure

Substance Name — p-Nitrophenol
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Not available at this time.

III. [reserved]

IV. [reserved]

V. [reserved]

VI. Bibliography

Substance Name — p-Nitrophenol

CASRN — 100-02-7

VI.A. Oral RfD References

None

VI.B. Inhalation RfC References

U.S. EPA. 1980. Ambient Water Quality Criteria Document for Nitrophenols. Prepared by the Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Cincinnati, OH for the Office of Water Regulations and Standards, Criteria and Standards Division, Washington, DC. October. EPA 440/5-80-063.

U.S. EPA. 1985. Health and Environmental Effects Profile for Nitrophenols. Prepared by the Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Cincinnati, OH for the Office of Solid Waste and Emergency Response, Washington, DC.

U.S. EPA. 1987. Health Effects Assessment for Nitrophenols. Prepared by the Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Cincinnati, OH for the Office of Solid Waste and Emergency Response, Washington, DC.

VI.C. Carcinogenicity Assessment References

None

VII. Revision History

Substance Name — p-Nitrophenol

CASRN — 100-02-7

Date	Section	Description
10/01/1991	I.B.	Inhalation RfC message on-line
12/03/2002	I.B.	Screening-Level Literature Review Findings message has been added.

VIII. Synonyms

Substance Name — p-Nitrophenol

CASRN — 100-02-7

Last Revised — 10/01/1991

- 100-02-7
- 4-HYDROXYNITROBENZENE
- 4-NITROFENOL [DUTCH]
- 4-NITROPHENOL
- CASWELL NO. 603
- EPA PESTICIDE CHEMICAL CODE 056301
- HSDB 1157
- NCI-C55992
- NIPHEN
- NSC 1317
- PARANITROFENOL [DUTCH]
- PARANITROFENOLO [ITALIAN]
- PHENOL, 4-NITRO-
- PHENOL, P-NITRO-
- P-HYDROXYNITROBENZENE
- P-NITROFENOL [CZECH]
- P-NITROPHENOL
- RCRA WASTE NUMBER U170