



# Toxicological Profile for Nitrophenols

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U.S. Department of Health and Human Services  
Agency for Toxic Substances and Disease Registry

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## **DISCLAIMER**

Use of trade names is for identification only and does not imply endorsement by the Agency for Toxic Substances and Disease Registry, the Public Health Service, or the U.S. Department of Health and Human Services.

## FOREWORD

This toxicological profile is prepared in accordance with guidelines\* developed by the Agency for Toxic Substances and Disease Registry (ATSDR) and the Environmental Protection Agency (EPA). The original guidelines were published in the *Federal Register* on April 17, 1987. Each profile will be revised and republished as necessary.

The ATSDR toxicological profile succinctly characterizes the toxicologic and adverse health effects information for these toxic substances described therein. Each peer-reviewed profile identifies and reviews the key literature that describes a substance's toxicologic properties. Other pertinent literature is also presented, but is described in less detail than the key studies. The profile is not intended to be an exhaustive document; however, more comprehensive sources of specialty information are referenced.

The focus of the profiles is on health and toxicologic information; therefore, each toxicological profile begins with a relevance to public health discussion which would allow a public health professional to make a real-time determination of whether the presence of a particular substance in the environment poses a potential threat to human health. The adequacy of information to determine a substance's health effects is described in a health effects summary. Data needs that are of significance to the protection of public health are identified by ATSDR and EPA.

Each profile includes the following:

- (A) The examination, summary, and interpretation of available toxicologic information and epidemiologic evaluations on a toxic substance to ascertain the levels of significant human exposure for the substance due to associated acute, intermediate, and chronic exposures;
- (B) A determination of whether adequate information on the health effects of each substance is available or in the process of development to determine levels of exposure that present a significant risk to human health of acute, intermediate, and chronic health effects; and
- (C) Where appropriate, identification of toxicologic testing needed to identify the types or levels of exposure that may present significant risk of adverse health effects in humans.

The principal audiences for the toxicological profiles are health professionals at the Federal, State, and local levels; interested private sector organizations and groups; and members of the public.

This profile reflects ATSDR's assessment of all relevant toxicologic testing and information that has been peer-reviewed. Staffs of the Centers for Disease Control and Prevention and other Federal scientists have also reviewed the profile. In addition, this profile has been peer-reviewed by a nongovernmental panel and was made available for public review. Final responsibility for the contents and views expressed in this toxicological profile resides with ATSDR.



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### \*Legislative Background

The toxicological profiles are developed under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended (CERCLA or Superfund). CERCLA section 104(i)(1) directs the Administrator of ATSDR to "...effectuate and implement the health related authorities" of the statute. This includes the preparation of toxicological profiles for hazardous substances most commonly found at facilities on the CERCLA National Priorities List (NPL) and that pose the most significant potential threat to human health, as determined by ATSDR and the EPA. Section 104(i)(3) of CERCLA, as amended, directs the Administrator of ATSDR to prepare a toxicological profile for each substance on the list. In addition, ATSDR has the authority to prepare toxicological profiles for substances not found at sites on the NPL, in an effort to "...establish and maintain inventory of literature, research, and studies on the health effects of toxic substances" under CERCLA Section 104(i)(1)(B), to respond to requests for consultation under section 104(i)(4), and as otherwise necessary to support the site-specific response actions conducted by ATSDR.

## VERSION HISTORY

Date	Description
April 2023	Final toxicological profile released
April 2022	Draft for public comment toxicological profile released
July 1992	Final toxicological profile released

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ATSDR scientists review peer reviewers' comments and determine whether changes will be made to the profile based on comments. The peer reviewers' comments and responses to these comments are part of the administrative record for this compound.

The listing of peer reviewers should not be understood to imply their approval of the profile's final content. The responsibility for the content of this profile lies with ATSDR.

## CONTENTS

DISCLAIMER .....	ii
FOREWORD .....	iii
VERSION HISTORY .....	v
CONTRIBUTORS & REVIEWERS .....	vi
CONTENTS .....	viii
LIST OF FIGURES .....	x
LIST OF TABLES .....	xi
CHAPTER 1. RELEVANCE TO PUBLIC HEALTH .....	1
1.1 OVERVIEW AND U.S. EXPOSURES .....	1
1.2 SUMMARY OF HEALTH EFFECTS .....	2
1.3 MINIMAL RISK LEVELS (MRLs) .....	5
CHAPTER 2. HEALTH EFFECTS .....	8
2.1 INTRODUCTION .....	8
2.2 DEATH .....	34
2.3 BODY WEIGHT .....	35
2.4 RESPIRATORY .....	36
2.5 CARDIOVASCULAR .....	37
2.6 GASTROINTESTINAL .....	38
2.7 HEMATOLOGICAL .....	39
2.8 MUSCULOSKELETAL .....	40
2.9 HEPATIC .....	41
2.10 RENAL .....	42
2.11 DERMAL .....	43
2.12 OCULAR .....	44
2.13 ENDOCRINE .....	45
2.14 IMMUNOLOGICAL .....	46
2.15 NEUROLOGICAL .....	46
2.16 REPRODUCTIVE .....	48
2.17 DEVELOPMENTAL .....	49
2.18 CANCER .....	51
2.19 GENOTOXICITY .....	52
CHAPTER 3. TOXICOKINETICS, SUSCEPTIBLE POPULATIONS, BIOMARKERS, CHEMICAL INTERACTIONS .....	57
3.1 TOXICOKINETICS .....	57
3.1.1 Absorption .....	57
3.1.2 Distribution .....	59
3.1.3 Metabolism .....	60
3.1.4 Excretion .....	62
3.1.5 Physiologically Based Pharmacokinetic (PBPK)/Pharmacodynamic (PD) Models .....	63
3.1.6 Animal-to-Human Extrapolations .....	64
3.2 CHILDREN AND OTHER POPULATIONS THAT ARE UNUSUALLY SUSCEPTIBLE .....	64
3.3 BIOMARKERS OF EXPOSURE AND EFFECT .....	67
3.3.1 Biomarkers of Exposure .....	68
3.3.2 Biomarkers of Effect .....	68



3.4	INTERACTIONS WITH OTHER CHEMICALS .....	69
CHAPTER 4. CHEMICAL AND PHYSICAL INFORMATION .....		71
4.1	CHEMICAL IDENTITY .....	71
4.2	PHYSICAL AND CHEMICAL PROPERTIES .....	73
CHAPTER 5. POTENTIAL FOR HUMAN EXPOSURE .....		77
5.1	OVERVIEW .....	77
5.2	PRODUCTION, IMPORT/EXPORT, USE, AND DISPOSAL .....	79
5.2.1	Production .....	79
5.2.2	Import/Export.....	80
5.2.3	Use .....	81
5.2.4	Disposal.....	81
5.3	RELEASES TO THE ENVIRONMENT.....	81
5.3.1	Air .....	82
5.3.2	Water.....	85
5.3.3	Soil .....	85
5.4	ENVIRONMENTAL FATE .....	86
5.4.1	Transport and Partitioning.....	86
5.4.2	Transformation and Degradation .....	88
5.5	LEVELS IN THE ENVIRONMENT.....	91
5.5.1	Air .....	93
5.5.2	Water.....	94
5.5.3	Sediment and Soil .....	96
5.5.4	Other Media .....	98
5.6	GENERAL POPULATION EXPOSURE.....	99
5.7	POPULATIONS WITH POTENTIALLY HIGH EXPOSURES .....	101
CHAPTER 6. ADEQUACY OF THE DATABASE.....		102
6.1	INFORMATION ON HEALTH EFFECTS.....	102
6.2	IDENTIFICATION OF DATA NEEDS .....	102
6.3	ONGOING STUDIES.....	109
CHAPTER 7. REGULATIONS AND GUIDELINES .....		110
CHAPTER 8. REFERENCES .....		112
APPENDICES		
APPENDIX A.	ATSDR MINIMAL RISK LEVEL WORKSHEETS .....	A-1
APPENDIX B.	LITERATURE SEARCH FRAMEWORK FOR NITROPHENOLS .....	B-1
APPENDIX C.	FRAMEWORK FOR ATSDR'S SYSTEMATIC REVIEW OF HEALTH EFFECTS DATA FOR NITROPHENOLS .....	C-1
APPENDIX D.	USER'S GUIDE.....	D-1
APPENDIX E.	QUICK REFERENCE FOR HEALTH CARE PROVIDERS .....	E-1
APPENDIX F.	GLOSSARY .....	F-1
APPENDIX G.	ACRONYMS, ABBREVIATIONS, AND SYMBOLS.....	G-1

## LIST OF FIGURES

1-1. Health Effects Found in Animals Following Inhalation Exposure to Nitrophenols .....	3
1-2. Health Effects Found in Animals Following Oral Exposure to Nitrophenols .....	3
1-3. Summary of Sensitive Targets of Nitrophenols – Inhalation .....	6
1-4. Summary of Sensitive Targets of Nitrophenols – Oral.....	6
2-1. Overview of the Number of Studies Examining Nitrophenols Health Effects.....	11
2-2. Levels of Significant Exposure to Nitrophenols – Inhalation.....	15
2-3. Levels of Significant Exposure to Nitrophenols – Oral.....	26
3-1. Proposed Metabolic Pathway of 2-Nitrophenol Following Oral Administration in Rats.....	60
3-2. Proposed Metabolic Pathway of 4-Nitrophenol Following Oral Administration in Rats.....	61
5-1. Number of NPL Sites with 2-Nitrophenol, 3-Nitrophenol, and/or 4-Nitrophenol Contamination .....	77
6-1. Summary of Existing Health Effects Studies on Exposure to Nitrophenols by Route and Endpoint .....	103

## LIST OF TABLES

1-1. Minimal Risk Levels (MRLs) for Nitrophenols .....	7
2-1. Levels of Significant Exposure to Nitrophenols – Inhalation.....	12
2-2. Levels of Significant Exposure to Nitrophenols – Oral.....	20
2-3. Levels of Significant Exposure to Nitrophenols – Dermal.....	32
2-4. Genotoxicity of 2-Nitrophenol <i>In Vitro</i> .....	52
2-5. Genotoxicity of 3-Nitrophenol <i>In Vitro</i> .....	53
2-6. Genotoxicity of 4-Nitrophenol <i>In Vitro</i> .....	54
2-7. Genotoxicity of 4-Nitrophenol <i>In Vivo</i> .....	55
4-1. Chemical Identity of 2-Nitrophenol.....	71
4-2. Chemical Identity of 3-Nitrophenol.....	72
4-3. Chemical Identity of 4-Nitrophenol.....	72
4-4. Physical and Chemical Properties of 2-Nitrophenol.....	74
4-5. Physical and Chemical Properties of 3-Nitrophenol.....	75
4-6. Physical and Chemical Properties of 4-Nitrophenol.....	76
5-1. Facilities that Produce, Process, or Use 2-Nitrophenol .....	80
5-2. Facilities that Produce, Process, or Use 4-Nitrophenol .....	80
5-3. Releases to the Environment from Facilities that Produce, Process, or Use 2-Nitrophenol.....	82
5-4. Releases to the Environment from Facilities that Produce, Process, or Use 4-Nitrophenol.....	83
5-5. 4-Nitrophenol Emissions to the Air Based on 2017 National Emissions Inventory.....	83
5-6. Lowest Limit of Detection for Nitrophenols Based on Standards.....	92
5-7. Summary of Environmental Levels of Nitrophenols.....	92
5-8. Nitrophenols Levels in Water, Soil, and Air of National Priorities List (NPL) Sites.....	92
5-9. Summary of Concentrations of Nitrophenols (ppb) Measured in Surface and Groundwater Across the United States.....	95
5-10. Summary of Concentrations of Nitrophenols (ppb) Measured in Soil and Sediment Across the United States.....	97
5-11. 2017 Hair Monitoring Data for 4-Nitrophenol in 117 Adults and 40 Children.....	98

5-12. Geometric Mean and Selected Percentiles of Urinary 4-Nitrophenol (in $\mu\text{g/L}$ ) for the U.S. Population from the National Health and Nutrition Examination Survey (NHANES).....	99
7-1. Regulations and Guidelines Applicable to Nitrophenols.....	110