

National Toxicology Program
Toxicity Report Series
Number 44

**NTP Technical Report
on Comparative Toxicity and Carcinogenicity Studies of**

***o*-Nitrotoluene and
o-Toluidine Hydrochloride**

(CAS Nos. 88-72-2 and 636-21-5)

**Administered in Feed
to Male F344/N Rats**

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Post Office Box 12233
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**NIH Publication 96-3936
March 1996**

**United States Department of Health and Human Services
Public Health Service
National Institutes of Health**

Note to the Reader

The National Toxicology Program (NTP) is made up of four charter agencies of the United States Department of Health and Human Services (DHHS):

- the National Cancer Institute (NCI) of the National Institutes of Health;
- the National Institute of Environmental Health Sciences (NIEHS) of the National Institutes of Health;
- the National Center for Toxicological Research (NCTR) of the Food and Drug Administration; and
- the National Institute for Occupational Safety and Health (NIOSH) of the Centers for Disease Control.

In July 1981, the Carcinogenesis Bioassay Testing Program was transferred from NCI to NIEHS. NTP coordinates the relevant Public Health Service programs, staff, and resources that are concerned with basic and applied research and with biological assay development and validation.

NTP develops, evaluates, and disseminates scientific information about potentially toxic and hazardous chemicals. This knowledge is used for protecting the health of the American people and for the primary prevention of disease.

NTP designs and conducts studies to characterize and evaluate the toxicologic potential of selected chemicals in laboratory animals (usually two species, rats and mice). Chemicals selected for NTP toxicology studies are chosen primarily on the bases of human exposure, level of production, and chemical structure. The interpretive conclusions presented in this Toxicity Study Report are based only on the results of these NTP studies. Extrapolation of these results to other species, and quantitative risk analyses for humans, require wider analyses beyond the purview of these studies. Selection *per se* is not an indicator of a chemical's toxic potential.

The study described in this toxicity study report was performed under the direction of NIEHS and was conducted in compliance with NTP laboratory health and safety requirements. The study met or exceeded all applicable federal, state, and local health and safety regulations. Animal care and use were in accord and compliance with the Public Health Service Policy on Humane Care and Use of Animals.

Single copies of this report are available without charge, while supplies last, from the NTP Central Data Management (telephone number 919/541-3419).

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This NTP report on the toxicity studies of *o*-nitrotoluene and *o*-toluidine hydrochloride is based primarily on 26-week feed studies that began in March 1992 and ended in June 1992 at Battelle Columbus Operations, Columbus, OH.

National Toxicology Program

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PEER REVIEW

The draft report on the toxicity studies of *o*-nitrotoluene and *o*-toluidine hydrochloride was evaluated by the reviewers listed below. These reviewers serve as independent scientists, not as representatives of any institution, company, or governmental agency. In this capacity, reviewers determine if the design and conditions of this NTP study are appropriate and ensure that the toxicity study report presents the experimental results and conclusions fully and clearly.

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