2,4-Diaminotoluene; CASRN 95-80-7

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 2,4-Diaminotoluene

File First On-Line 03/01/1991

Category (section)	Assessment Available?	Last Revised
Oral RfD (I.A.)	not evaluated	
Inhalation RfC (I.B.)	message	03/01/1991
Carcinogenicity Assessment (II.)	not evaluated	

I. Chronic Health Hazard Assessments for Noncarcinogenic Effects

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

Substance Name — 2,4-Diaminotoluene
CASRN — 95-80-7

Not available at this time.

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

Substance Name — 2,4-Diaminotoluene
CASRN — 95-80-7

NOTE: This assessment was based on data for 2,4-diaminotoluene, as well as 2,6-diaminotoluene and the mixture. It is intended to be applicable to 2,6-diaminotoluene (CASRN 823-40-5) and the mixture (CASRN 25376-45-8).

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

Selevan, S.G. 1988. Review of Toluene Diamine. Report provided to U.S. EPA, Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Research Triangle Park, NC.

U.S. EPA. 1981. Memo from Frank Kover, Chemical Hazard Identification Branch, U.S. EPA to Joseph Merenda, Assessment Division, U.S. EPA.

U.S. EPA. 1986. Health and Environmental Effects Profile for 2,4-Toluenediamine. 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. EPA/600/X-86/144. PB 88- 251178/AS.

Agency Work Group Review — 12/18/1990

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 2,4-Diaminotoluene conducted in September 2002 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 — 2,4-Diaminotoluene
CASRN — 95-80-7

This substance/agent has not undergone a complete evaluation and determination under US EPA's IRIS program for evidence of human carcinogenic potential.

VI. Bibliography

Substance Name — 2,4-Diaminotoluene
CASRN — 95-80-7

VI.A. Oral RfD References

None

VI.B. Inhalation RfC References

Selevan, S.G. 1988. Review of Toluene Diamine. Report provided to U.S. EPA, Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Research Triangle Park, NC.

U.S. EPA. 1981. Memo from Frank Kover, Chemical Hazard Identification Branch, U.S. EPA to Joseph Merenda, Assessment Division, U.S. EPA.

U.S. EPA. 1986. Health and Environmental Effects Profile for 2,4-Toluenediamine. 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. EPA/600/X-86/144. PB 88-251178/AS.

VI.C. Carcinogenicity Assessment References

None

VII. Revision History

Substance Name — 2,4-Diaminotoluene
CASRN — 95-80-7

Date	Section	Description
03/01/1991	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 — 2,4-Diaminotoluene
CASRN — 95-80-7
Last Revised — 03/01/1991

- 95-80-7
- 1,3-Benzenediamine, 4-methyl-
- C.I. OXIDATION BASE
- C.I. OXIDATION BASE 35
- Developer B
- Developer DB
- DEVELOPER DBJ
- Developer MC
- Developer MT
- DEVELOPER MT-CF
- DEVELOPER MTD
- Developer T
- Eucanine GB
- Fouramine J
- Fourrine M
- Fourrine 94
- HSDB 2849
- m-TOLUENEDIAMINE
- m-TOLUYLENDIAMIN [Czech]

- m-TOLUYLENEDIAMINE
- m-TOLYENEDIAMINE
- m-TOLYLENEDIAMINE
- META TOLUYLENE DIAMINE
- NAKO TMT
- NCI-CO23O2
- NCI-C02302
- PELAGOL GREY J
- Pelagol J
- PONTAMINE DEVELOPER TN
- RENAL MD
- TDA
- Toluene-2,4-diamine
- TOLYLENE-2,4-DIAMINE
- UN 1709
- ZOBA GKE
- ZOGEN DEVELOPER H
- 1,3-Benzenediamine, 4-methyl-
- 1,3-DIAMINO-4-METHYLBENZENE
- 2,4-DIAMINO-1-METHYLBENZENE
- 2,4-DIAMINO-1-TOLUENE
- 2,4-DIAMINOTOLUEN [Czech]
- 2,4-diaminotoluene
- 2,4-DIAMINOTOLUOL
- 2,4-TOLAMINE
- 2,4-toluenediamine
- 2,4-TOLUYLENEDIAMINE
- 2,4-TOLYLENEDIAMINE
- 3-AMINO-p-TOLUIDINE
- 4-m-TOLYLENEDIAMINE
- 4-METHYL-m-PHENYLENEDIAMINE
- 4-METHYL-1,3-BENZENEDIAMINE
- 5-AMINO-o-TOLUIDINE
- 823-40-5
- 1,3-Benzenediamine, 2-methyl-
- HSDB 4131
- m-Toluylenediamine [French]
- NSC 147490
- Toluene-2,6-diamine
- Toluilen-2,4-diamina [Spanish]
- 1,3-BENZENEDIAMINE, 2-METHYL-
- 2-METHYL-M-PHENYLENEDIAMINE
- 2-METHYL-1,3-BENZENEDIAMINE
- 2-METHYL-1,3-PHENYLENEDIAMINE
- 2,4-Toluylenediamine

- 2,6-DIAMINO-1-METHYLBENZENE
- 2,6-diaminotoluene
- 2,6-TOLUYLENEDIAMINE
- 2,6-TOLYLENEDIAMINE
- 25376-45-8
- Diaminotoluene mixture, 2,4-/2,6-