

Propylene glycol; CASRN 57-55-6

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 Propylene glycol

File First On-Line 06/01/1991

Category (section)	Assessment Available?	Last Revised
Oral RfD (I.A.)	not evaluated	
Inhalation RfC (I.B.)	message	06/01/1991
Carcinogenicity Assessment (II.)	not evaluated	

I. Chronic Health Hazard Assessments for Noncarcinogenic Effects

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

Substance Name — Propylene glycol
CASRN — 57-55-6

Not available at this time.

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

Substance Name — Propylene glycol
CASRN — 57-55-6

The health effects data for propylene glycol 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 the health effects of this chemical, interested parties are referred to the EPA documentation listed below.

U.S. EPA. 1987. Health and Environmental Effects Document for Propylene Glycol. 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 — 04/25/1991

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 Propylene glycol conducted in September 2002 identified one or more significant new studies. IRIS users may request the references for those studies from 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 — Propylene glycol
CASRN — 57-55-6

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

III. [reserved]

IV. [reserved]

V. [reserved]

VI. Bibliography

Substance Name — Propylene glycol
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VI.A. Oral RfD References

None

VI.B. Inhalation RfC References

U.S. EPA. 1987. Health and Environmental Effects Document for Propylene Glycol. 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 — Propylene glycol
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Date	Section	Description
06/01/1991	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 — Propylene glycol

CASRN — 57-55-6

Last Revised — 06/01/1991

- 57-55-6
- 1,2-Propanediol
- AI3-01898
- alpha-Propylene glycol
- alpha-PROPYLENEGLYCOL
- Caswell No. 713
- Colla-Moist WS
- Dowfrost
- EPA Pesticide Chemical Code 068603
- Horsechestnut HS
- Methyl glycol
- Methylethyl glycol
- Methylethylene glycol
- Monopropylene glycol
- NSC 69860
- PG 12
- Propane-1,2-diol
- Propylene glycol
- PROPYLENE GLYCOL USP
- Sentry Propylene Glycol
- Sirlene
- SOLAR WINTER BAN
- Trimethyl glycol
- Uantox 20
- Uantox 3
- 1,2-Dihydroxypropane
- 1,2-Propanediol
- 1,2-Propylene glycol
- 1,2-PROPYLENGLYKOL [German]
- 2-Hydroxypropanol
- 2,3-Propanediol