Fact Sheet Date: March 12, 1998

NEW YORK STATE
- HUMAN HEALTH FACT SHEET -

Ambient Water Quality Value for Protection of Sources of Potable Water

SUBSTANCE: n-Propylbenzene **CAS REGISTRY NUMBER:** 103-65-1

AMBIENT WATER QUALITY VALUE: 5 ug/L

BASIS:

Surface Water: Principal Organic Contaminant Classes

Groundwater: Former Reference to 10 NYCRR Subpart 5-1 Principal Organic Contaminant (POC) General Maximum Contaminant Level (MCL)

SUMMARY OF INFORMATION

A search of relevant databases revealed very little information on n-propylbenzene. The substance is not included in EPA's IRIS database and no information exists to classify its potential as a carcinogen. Some data on inhalation studies exist for C9 aromatic hydrocarbons, including n-propylbenzene. However, n-propylbenzene is a very small component of the tested mixtures. In a 6 month oral study in rabbits fed 0.25 and 2.5 mg/kg/day there were no significant differences between treated animals and controls (Gerarde and Ahlstrom, 1966).

There is insufficient information with which to determine its carcinogenicity or to derive an Acceptable Daily Intake for non-carcinogenic effects.

n-Propylbenzene is in a principal organic contaminant class (class 4, benzene and alkyl- or nitrogen-substituted benzenes) as defined in 6 NYCRR 700.1.

DERIVATION OF VALUE

Surface Water

Regulations [6 NYCRR 702.2(b)] require that the value be the most stringent of the values derived using the procedures found in sections 702.3 through 702.7. The principal organic contaminant class value of 5 ug/L (702.3(b)) represents the most stringent value that can be derived for n-propylbenzene. Therefore, the ambient surface water quality value for n-propylbenzene is 5 ug/L.

Groundwater

The principal organic contaminant (POC) groundwater standard of 5 ug/L (6 NYCRR 703.5) applies to n-propylbenzene. This standard became effective on January 9, 1989 by inclusion by reference to 10 NYCRR Subpart 5-1 standards. The basis and derivation of the POC standard are described in a separate fact sheet.

REFERENCES

Gerarde, H.W. and D.B. Ahlstrom. 1966. Toxicological studies on hydrocarbons. XI. Influence of dose on the metabolism of mono-n-alkyl derivatives of benzene. Toxicol. Appl. Pharmacol. 9:185-190.

NYSDEC. 1991. 6 NYCRR, Chapter X, Parts 700-705. Water Quality Regulations for Surface Waters and Groundwaters. Albany, New York.

SEARCH STRATEGY

RTECS
IARC
IRIS
Database searches on TOXLINE, NTIS, 1965 to March 1993.

New York State Department of Environmental Conservation
Division of Water
AS
February 9, 1994