

OHIO EPA SURFACE WATER QUALITY CRITERION FACT SHEET

Page 1 of 2

Chemical Name: n-Propylbenzene Developed by: Chris J. Skalski

CAS # 103-65-1 Data Retrieval Date: 2-4-04

Internal Code # --- Fact Sheet Preparation Date: 2-9-04

Reviewed by: Bob Heitzman

ACUTE DATA

<u>SPECIES</u>	<u>EC₅₀/LC₅₀</u> <u>(µg/l)</u>	<u>TEST TYPE^a</u>	<u>DURATION</u> <u>(HOURS)</u>	<u>SMAV^b</u> <u>(µg/l)</u>	<u>GMAV^b</u> <u>(µg/l)</u>	<u>REFERENCE</u> <u>NUMBER</u>
Rainbow trout <i>Oncorhynchus mykiss</i>	1,550	R,M	96	1,550	1,550	1

^a R = renewal; M = measured.

^b SMAV = Species Mean Acute Value; GMAV = Genus Mean Acute Value.

CHRONIC DATA

<u>SPECIES</u>	<u>CHRONIC VALUE</u> <u>(µg/l)</u>	<u>METHOD</u>	<u>SMCV^a</u> <u>(µg/l)</u>	<u>GMCV^a</u> <u>(µg/l)</u>	<u>REFERENCE</u> <u>NUMBER</u>
----------------	---------------------------------------	---------------	--	--	-----------------------------------

No Chronic Data Available

^a SMCV = Species Mean Chronic Value; GMCV = Genus Mean Chronic Value.

REFERENCES

- Galassi, S., M. Mingazzini, L. Vigano, D. Cesareo and M.L. Tosato. 1988. Approaches to Modeling Toxic Responses of Aquatic Organisms to Aromatic Hydrocarbons. *Ecotoxicol. Environ. Saf.* 16(2):158-169.

OHIO EPA SURFACE WATER QUALITY CRITERION FACT SHEET

Page 2 of 2

Chemical Name: n-Propylbenzene Developed by: Chris J. Skalski

CAS # 103-65-1 Data Retrieval Date: 2-4-04

Internal Code # --- Fact Sheet Preparation Date: 2-9-04

Reviewed by: Bob Heitzman

CALCULATION OF ACUTE AQUATIC VALUE (AAV)^a

Data Requirement <u>OAC 3745-1-36(A)(1)</u>	<u>SPECIES</u>	GMAV ($\mu\text{g/l}$)
(a)	<i>Oncorhynchus mykiss</i>	1,550

Secondary Acute Factor (SAF) = 21.9

Secondary Acute Value (SAV) = Lowest GMAV \div SAF

Insufficient Data Available to Calculate a SAV

Tier II Acute Aquatic Value (AAV) = SAV \div 2

Insufficient Data Available to Calculate an AAV

CALCULATION OF CHRONIC AQUATIC VALUE (CAV)^a

Experimentally determined Acute-Chronic Ratios (ACRs):

<u>SPECIES</u>	ACUTE VALUE ($\mu\text{g/l}$)	CHRONIC VALUE ($\mu\text{g/l}$)	ACUTE-CHRONIC RATIO	SPECIES MEAN ACR
----------------	------------------------------------	--------------------------------------	------------------------	---------------------

No Chronic Data Available

Secondary Acute-Chronic Ratio (SACR) = $\sqrt[3]{(18)(18)(18)} = 18$

Chronic Aquatic Value (CAV) = SAV \div SACR

Insufficient Data Available to Calculate a CAV

^aSee Ohio Administrative Code 3745-1-36 effective February 22, 2002.