

OHIO EPA SURFACE WATER QUALITY CRITERION FACT SHEET

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Chemical Name: Benzo(k)fluoranthene      Developed by: Chris Skalski

CAS # 207-08-9      Data Retrieval Date: 3-19-03

Internal Code # 13      Fact Sheet Preparation Date: 3-20-03

Reviewed by: Bob Heitzman

### ACUTE DATA

<u>SPECIES</u>	<u>EC<sub>50</sub>/LC<sub>50</sub></u> <u>(µg/l)</u>	<u>TEST TYPE</u>	<u>DURATION</u> <u>(HOURS)</u>	<u>SMAV<sup>a</sup></u> <u>(µg/l)</u>	<u>GMAV<sup>a</sup></u> <u>(µg/l)</u>	<u>REFERENCE</u> <u>NUMBER</u>
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No Acute Data

<sup>a</sup> 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<sup>a</sup></u> <u>(µg/l)</u>	<u>GMCV<sup>a</sup></u> <u>(µg/l)</u>	<u>REFERENCE</u> <u>NUMBER</u>
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No Chronic Data

<sup>a</sup> SMCV = Species Mean Chronic Value; GMCV = Genus Mean Chronic Value.

### REFERENCES

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CALCULATION OF ACUTE AQUATIC VALUE (AAV)<sup>a</sup>

Data Requirement <u>OAC 3745-1-36(A)(1)</u>	<u>SPECIES</u>	GMAV <u>(µg/l)</u>
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Secondary Acute Factor (SAF) =

Secondary Acute Value (SAV) = Lowest GMAV ÷ SAF  
 =  
 = Insufficient data available

Tier II Acute Aquatic Value (AAV) = SAV ÷ 2  
 = ÷ 2  
 = Insufficient data available

CALCULATION OF CHRONIC AQUATIC VALUE (CAV)<sup>a</sup>

Experimentally determined Acute-Chronic Ratios (ACRs):

<u>SPECIES</u>	<u>ACUTE VALUE</u> <u>(µg/l)</u>	<u>CHRONIC VALUE</u> <u>(µg/l)</u>	<u>ACUTE-CHRONIC</u> <u>RATIO</u>	<u>SPECIES MEAN</u> <u>ACR</u>
None Available				

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

Chronic Aquatic Value (CAV) = SAV ÷ SACR  
 = ÷ 18  
 = Insufficient data available

<sup>a</sup>See Ohio Administrative Code 3745-1-36 effective February 22, 2002.

FAV	µg/l
SAV	µg/l

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CAV	µg/l
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