

US EPA ARCHIVE DOCUMENT

MTBE AQUATIC TOXICITY DATA

Freshwater

<i>Selenastrum capricornutum</i> (green alga)	184 (LC ₅₀ , mg/l) ¹
<i>Daphnia magna</i> (water flea)	681 (LC ₅₀ , mg/l) ¹ 542 “ ²
<i>Ceriodaphnia dubia</i> (water flea)	340 (LC ₅₀ , mg/l) ³ 203 (IC ₂₅ , mg/l) ^{*4}
<i>Pimephales promelas</i> (fathead minnow)	706 (LC ₅₀ , mg/l) ⁵ 672 “ ⁶ 929 “ ¹ 980 “ ⁷ 288 (IC ₂₅ , mg/l) ^{*8}
<i>Onchorhynchus mykiss</i> (rainbow trout)	1237 (LC ₅₀ , mg/l) ¹ 887 (LC ₅₀ , mg/l) ⁹
<i>Rana temporaria</i> L. (tadpole)	2500 (LC ₅₀ , mg/l) ¹⁰

Marine

<i>Nitocra spinipes</i> (copepod)	>1000 (LC ₅₀ , mg/l) ¹¹
<i>Mysidopsis bahia</i> (mysid shrimp)	44 (LC ₅₀ , mg/l) ¹² 136 “ ¹
<i>Alburnus alburnus</i> (bleak)	>1000 (LC ₅₀ , mg/l) ¹¹
<i>Cyprinodon variegatus</i> (sheepshead minnow)	>2500 (LC ₅₀ , mg/l) ¹³
<i>Menidia beryllina</i> (inland silverside)	574 (LC ₅₀ , mg/l) ¹

^{*} IC₂₅ is the concentration estimated to cause a 25% reduction in organism performance relative to control; *Ceriodaphnia* IC₂₅ data represent a reproductive effect; *Pimephales* IC₂₅ data represent a growth effect.

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