



# Toluene Fact Sheet

*for field use with mobile monitoring instruments*

This Field Guide provides a summary of the different mobile monitoring comparison values developed by the Toxicology, Risk Assessment, and Research Division for use in evaluating real-time mobile monitoring data in the field.

**All derived mobile monitoring comparison values are intended to be used as guidance.** Field investigators and mobile monitoring staff should use their own discretion when deciding to mitigate exposure, such as when experiencing health effects or intense odors, regardless of measured concentrations.

## What is Toluene?

- Toluene is a colorless liquid with a sweet, pungent, benzene-like odor
- Toluene is used to produce benzene; it can be found in many common household products and gasoline
- Toluene is released into the air through manufacturing processes and use of household products

## At What Levels Can Toluene Cause Harm?

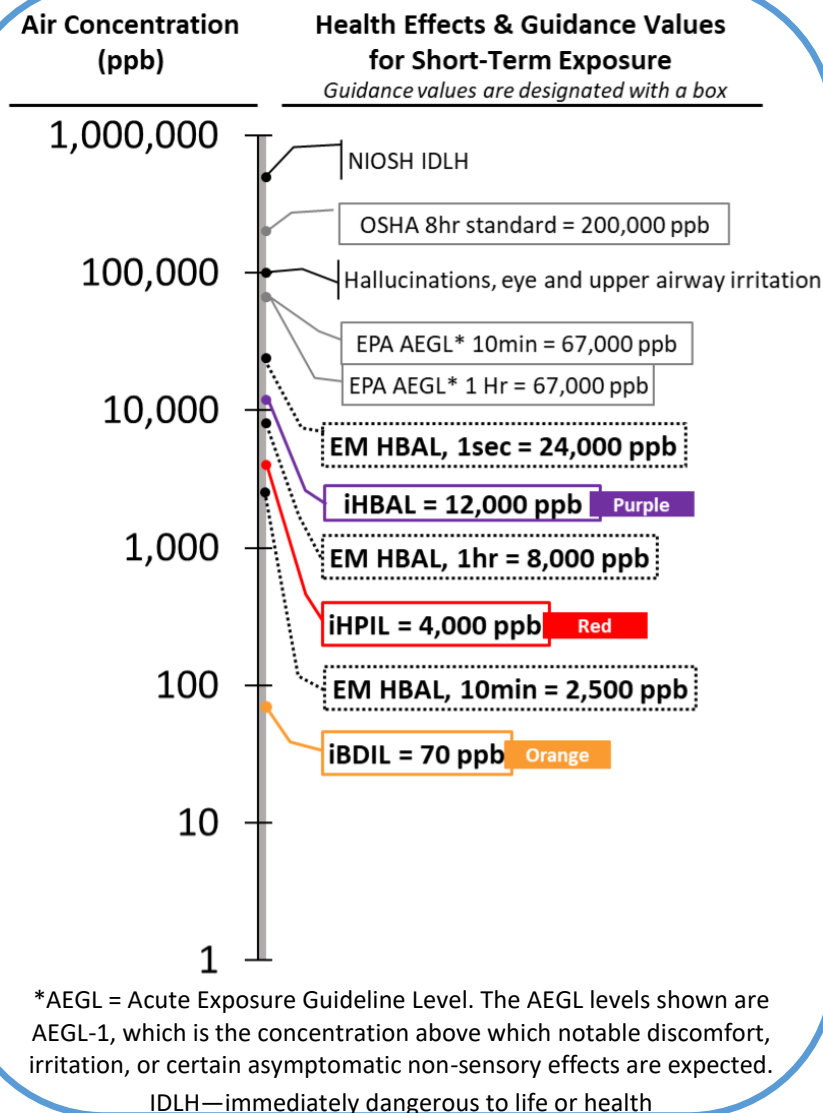
Breathing high levels of toluene for a short period of time can result in eye and nose irritation, headache, dizziness, and feelings of intoxication. On a long-term basis, breathing high concentrations of toluene can result in color vision loss, fatigue, memory problems, and hearing issues.

## Mobile Monitoring Comparison Values

Toluene		
iBDIL (ppb)	Orange	70
iHPIL (ppb)	Red	4,000
iHBAL (ppb)	Purple	12,000
EM HBAL <sub>10min</sub> (ppb)		2,500
EM HBAL <sub>1hr</sub> (ppb)		8,000
EM HBAL <sub>1sec</sub> (ppb)		24,000

iBDIL - instantaneous baseline-derived investigation level  
 iHPIL - instantaneous health-protective investigation level  
 iHBAL - instantaneous health-based action level  
 EM HBAL<sub>10min</sub> - 10-minute health-based action level for exposure mitigation  
 EM HBAL<sub>1hr</sub> - 1-hour health-based action level for exposure mitigation  
 EM HBAL<sub>1sec</sub> - 1-second health-based action level for exposure mitigation

All MMCVs are **safe levels**; AEGLs are health effects levels



For more information on EPA's AEGL values, please see EPA's website.

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