

## Toxicity Values for the TEACH Chemical Summary

### Chemical Name: Arsenic, Inorganic

Tox Value	Link	Date Last Revised	Value	Critical Effect(s)	Children's Studies?	Uncertainty Factors and Other Info
RfD	<a href="http://www.epa.gov/iris/su/bst/0278.htm">www.epa.gov/iris/su/bst/0278.htm</a>	02/01/1993	$3 \times 10^{-4}$ mg/kg-day	Hyperpigmentation, keratosis and possible vascular complications	None mentioned	UF=3; for lack of data and sensitive populations; MF=none.
RfC	<a href="http://www.epa.gov/iris/su/bst/0278.htm">www.epa.gov/iris/su/bst/0278.htm</a>	N/A				
Cancer Oral Slope Factor	<a href="http://www.epa.gov/iris/su/bst/0278.htm">www.epa.gov/iris/su/bst/0278.htm</a>	04/10/1998	1.5E+0 per (mg/kg)/day	Lung (inhalation) and skin (dermal) cancer	Discusses population studies with no ages	Cancer classification- A; human carcinogen
Cancer Drinking Water Unit Risk	<a href="http://www.epa.gov/iris/su/bst/0278.htm">www.epa.gov/iris/su/bst/0278.htm</a>	04/10/1998	5E-5 per ( g/L)			Extrapolation Method -- Time- and dose-related multistage
Drinking Water Concentrations at Specified Risk Levels	<a href="http://www.epa.gov/iris/su/bst/0278.htm">www.epa.gov/iris/su/bst/0278.htm</a>	04/10/1998	<u>E-4 (1 in 10,000)</u> 2E+0 g/L <u>E-5 (1 in 100,000)</u> 2E-1 g/L <u>E-6 (1 in 1,000,000)</u> 2E-2 g/L			
MRL	<a href="http://www.atsdr.cdc.gov/mrls.html">www.atsdr.cdc.gov/mrls.html</a>	09/00	Oral Acute 0.005 mg/kg/day	Gastrointestinal		Factor = 10
			Oral Chronic 0.0003 mg/kg/day	Dermal		Factor = 3
MCL (drinking water)	<a href="http://www.epa.gov/safewater/mcl.html#mcls">www.epa.gov/safewater/mcl.html#mcls</a>	July 2002	0.01 mg/L as of 1/23/06	Skin damage; problems with circulatory systems; increased risk of cancer		Sources: erosion of natural deposits; runoff from orchards, glass and electronics production
MCLG (drinking water)	same as MCL	July 2002	Zero			
Drinking Water Advisories	<a href="http://www.epa.gov/ost/drinking/standards/dwstandards.pdf">www.epa.gov/ost/drinking/standards/dwstandards.pdf</a>	N/A				

