

Toxicity Values for the TEACH Chemical Summary

Chemical Name: Nitrate

Tox Value	Link	Date Last Revised	Value	Critical Effect(s)	Children's Studies?	Uncertainty Factors and Other Info
RfD	www.epa.gov/iris/subst/0076.htm	10/01/91	1.6E+0 mg/kg-day	Early clinical signs of methemoglobinemia in excess of 10% (0-3 months old infants formula)	Primary Study	UF= 1, available data define the NOAEL for the critical effect in the most sensitive human subpopulation; MF=1
RfC	www.epa.gov/iris/subst/0076.htm	N/A				
Cancer Oral Slope Factor	www.epa.gov/iris/subst/0076.htm	N/A				
Cancer Inhalation Unit Risk	www.epa.gov/iris/subst/0076.htm	N/A				
Drinking Water Concentrations at Specified Risk Levels	www.epa.gov/iris/subst/0076.htm	N/A				
MRL	www.atsdr.cdc.gov/mrls.html	N/A				
MCL (drinking water)	www.epa.gov/safewater/mcl.html#mcls	July 2002	10 mg/L	Symptoms include shortness of breath and blue-baby syndrome.		Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Source: Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
MCLG (drinking water)	same as MCL	July 2002	10 mg/L			
Drinking Water Advisories (4-kg child)	www.epa.gov/ost/drinking/standards/dwstandards.pdf	Winter 2004	1 day - 10 mg/L 10 day - 10 mg/L			