

Toxicity Values for the TEACH Chemical Summary

Chemical Name: Dichlorvos

Tox Value	Link	Date Last Revised	Value	Critical Effect(s)	Children's Studies?	Uncertainty Factors and Other Info
RfD	www.epa.gov/iris/subst/0151.htm	11/01/1993	5E-4 mg/kg-day	Plasma and RBC colinesterase inhibition in males and females; brain ChE inhibition in males	Developmental toxicity on pregnant rats	UF=100 reflects 10 for interspecies extrapolation and 10 for intraspecies-variability; MF=1
RfC	www.epa.gov/iris/subst/0151.htm	06/01/1994	5E-4 mg/cu.m	Decreased brain colinesterase activity	None	UF=100; UF of 10 for sensitive human population, UF of 3 for interspecies, UF of 3 for both the lack of a multigenerational and chronic study in a second species. MF=1.
Cancer Oral Slope Factor	www.epa.gov/iris/subst/0151.htm	12/01/1994	2.9E-1 per (mg/kg)/day	Forestomach and pancreas tumors; leukemia	None	Classification – B2, probable human carcinogen
Cancer Drinking Water Unit Risk	www.epa.gov/iris/subst/0151.htm	12/1/1994	8.3E-6 per g/L			Extrapolation Method -- linearized multistage procedure, extra risk
Drinking Water Concentrations at Specified Risk Levels	www.epa.gov/iris/subst/0151.htm	11/01/1994	<u>E-4 (1 in 10,000)</u> 1E+1 g/L <u>E-5 (1 in 100,000)</u> 1E+0 g/L <u>E-6 (1 in 1,000,000)</u> 1E-1 g/L			
MRL	www.atsdr.cdc.gov/mrls.html	09/97	Inhalation Acute = 0.002 ppm	Neurological		Factor = 100
			Inhalation Int.= 0.0003 ppm	Neurological		Factor = 100
			Inhalation Chronic= 0.00006 ppm	Neurological		Factor = 100
			Oral Acute= 0.004 mg/kg/day	Neurological		Factor = 1000

			Oral Int.= 0.003 mg/kg/day	Neurological		Factor = 10
			Oral Chronic= 0.0005 mg/kg/day	Neurological		Factor = 100
MCL (drinking water)	www.epa.gov/safewater/mcl.html#mcls	N/A				
MCLG (drinking water)	same as MCL	N/A				
Drinking Water Advisories (10-kg child)	www.epa.gov/ost/drinking/standards/dwstandards.pdf	N/A				