

1,2,3-Trichloropropane (C₃H₃Cl₃)

What is 1,2,3-Trichloropropane?

1,2,3-Trichloropropane (EDB) is a synthetic chemical. It is a colorless, heavy liquid with a sweet but strong odor. It evaporates very quickly and small amounts dissolve in water. It is mainly used to make other chemicals. Some of it is also used as an industrial solvent, paint and varnish remover, and cleaning and degreasing agent.

Does 1,2,3-Trichloropropane have any additional names?

1,2,3-TCP

What are the known health effects?

1,2,3-TCP caused liver and kidney damage, blood disorders and stomach irritation in mouse and rat studies. 1,2,3-TCP has been classified as “likely to be a carcinogen”.

How does exposure occur?

Exposure to the general population primarily occurs through vapor inhalation or ingestion of contaminated water. 1,2,3-TCP is denser than water and does not evaporate, so it typically found at the bottom of aquifers.

Is this contaminant regulated?

Yes, and water supplied to customers of Mount Laurel MUA is in compliance with NJDEP requirements. The maximum concentration of 1,2,3-Trichloropropane permitted in drinking water is 0.3 ppb; 1,2,3-Trichloropropane is not currently detected in water supplied to MLTMUA customers.

How can I reduce exposure?

1,2,3-Trichloropropane can be removed from drinking water by use of granular activated carbon filtration.

Additional information for 1,2,3-Trichloropropane, including the information referenced, can be found at:

https://www.epa.gov/sites/production/files/2017-10/documents/ffrrofactsheet_contaminants_tcp_9-15-17_508.pdf
https://www.nj.gov/health/ceohs/documents/dwf_tcp.pdf