

Disinfectant/Disinfection by-Products (Drinking Water VOC's THM's and Haloacetic Acids)

REFERENCE: EPA 524.2 Revision 4.1 and EPA 552.3 Revision 1.0

The disinfectant/disinfection by-products (D/DBP) rule that regulates DBPs in the United States was designed to be implemented in three stages. The US Environmental Protection Agency (USEPA) does not regulate THMs or HAAs individually – there is only a standard for total THM's and total HAA's. THM's total limits is 80ug/L and HAA's is 60ug/L.

The Stage 1 Disinfectants and Disinfection Byproducts Rule (DBPR) reduces drinking water exposure to disinfection byproducts. The Rule applies to community water systems and non-transient non-community systems, including those serving fewer than 10,000 people that add a disinfectant to the drinking water during any part of the treatment process.

The Stage 2 DBPR strengthens public health protection by tightening compliance monitoring requirements for Trihalomethanes (TTHM) and Haloacetic acids (HAA5). The rule targets public water systems (PWSs) with the greatest risk.

Taken together, the Stage 1 and Stage 2 Disinfectants and Disinfection Byproducts Rules (DBPRs) improve drinking water quality. The rules do this by providing protection from disinfection byproducts. Byproducts, if consumed in excess of EPA's standard over many years, may increase health risks.

<u>Trihalomethanes THM's</u>	<u>METHOD REFERENCE</u>	<u>CAS #</u>
Chloroform	524.2	67-66-3
Bromodichloromethane	524.2	75-27-4
Dibromochloromethane	524.2	124-48-1
Bromoform	524.2	75-25-2

<u>Haloacetic Acids</u>	<u>METHOD REFERENCE</u>	<u>CAS #</u>
Monobromoacetic Acid	552.3	79-08-3
Monochloroacetic Acid	552.3	79-11-8
Dibromoacetic Acid	552.3	631-64-1
Dichloroacetic Acid	552.3	79-43-6
Trichloroacetic Acid	552.3	76-03-9