

Haloacetic Acid Standards for Analysis of Drinking Water by Capillary GC

Product Specification

Analysis of haloacetic acids is described in US EPA Method 552.1. The acids in a drinking water sample are concentrated, using solid phase extraction, then esterified on the solid phase extraction tube, using acidified methanol. The esters are separated on a 30m x 0.32mm x 0.25µm phase film SPB™-1701 capillary gas chromatography column (Catalog No. 2-4184). Reference standards for Method 552.1 analytes are described in Supelco publication number T494071 (available on request).

In addition to the six haloacetic acids named in the Information Collection Rule (ICR), the EPA is appealing to water treatment facilities to gather data on three additional acids: bromodichloroacetic acid, chlorodibromoacetic acid, and tribromoacetic acid. High purity reference solutions for these additional acids were not commercially available when the ICR was written, thus these compounds are not named in the rule.

Supelco has developed synthesis routes for high purity research grade bromodichloroacetic acid, chlorodibromoacetic acid, and methyl tribromoacetate, and we offer individual quantitative reference solutions in methyl tert-butyl ether (MTBE) for these additional three compounds. Data collection for these compounds is possible under the ICR. *Supelco is the only source for these materials.*

Supelco™ haloacetic acid standards are prepared from highly purified raw materials synthesized exclusively for use in reference solutions. All preparations are quantitatively prepared using NIST traceable gravimetric techniques, and finished solutions are analytically reviewed to ensure quality. Each Supelco haloacetic acid standard is packaged with a certificate of analysis and is covered by Supelco's guarantee of product integrity and formulation accuracy. To prevent photodegradation, the standards are packaged in amber ampuls. The quantitative composition of the unopened ampuls is guaranteed.

Ordering Information:

Haloacetic Acid Standards

1000µg/mL in methyl tert-butyl ether

Bromodichloroacetic Acid 1 mL	47278
Chlorodibromoacetic Acid 1 mL	47277
Methyl Tribromoacetate 1 mL	47730

SPB-1701 Capillary Column

30m x 0.32mm ID, 0.25µm film

24184

Fused silica capillary columns manufactured under HP US Pat. No. 4, 293,415.

For additional haloacetic acid reference standards, request publication number 494071.

For other environmental standards, see the latest Supelco catalog.

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