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D7600 Analysis for Carbamates (LC/MS/MS)

1 mL

Spotlight

ASTM has developed several LC/tandem mass spectrometry drinking water methods in partnership with the EPA. Each method is described below with the appropriate AccuStandard product listing.

Drinking Water ASTM Methods

D7598 Analysis for Thiodiglycol (LC/MS/MS)

AccuStandard[®]

- D7599 Analysis for Ethanolamines (LC/MS/MS)
 - D7645 Analysis for Carbamates (LC/MS/MS)

D7598 Analysis for Thiodiglycol in Drinking Water (LC/MS/MS)

Method D7598 applies to Thiodiglycol, a compound used in the manufacture of chemical weapons, insecticides, inks, lubricants and pharmaceutical products. The Method has been designed for drinking and surface water analysis, and includes the target compound and surrogate standard.

ASTM Thiodiglycol Standard		ASTM Thiodiglycol Surrogate Standard		
D-7598	1 mL	D-7598-SS	1 mL	
4.0 mg/mL in MeOH		4.0 mg/mL in MeOH		
Thiodiglycol		3,3'-Thiodipropanol		

D7599 Analysis for Ethanolamines in Drinking Water (LC/MS/MS)

1 mL

5 comps.

ASTM Method D7599 describes the qualitative and quantitative analysis of ethanolamine compounds - Diethanolamine, Triethanolamine, N-methyldiethanolamine and N-ethyldiethanolamine in drinking and surface waters. These compounds are listed as Schedule 3 chemicals under the Chemical Weapons Convention due to their toxicity and other properties that could potentially render them components of chemical weapons. In industry, these chemicals have a broad range of applications including the production of adhesives, detergents, inks, pesticides and pharmaceuticals.

ASTM Ethanolamine Standard

D-7599 50 µg/mL each in MeOH

Diethanolamine Triethanolamine N-Methyldiethanolamine N-Ethyldiethanolamine Diethanolamine-d₈

ASTM Ethanolamine Surrogate Standard D-7599-SS 200 µg/mL in MeOH Diethanolamine-d₈

D7600 and D7645 Carbamate Drinking Water Methods

ASTM Methods D7600 and D7645 apply to the analysis of carbamate pesticides in drinking and surface waters. The biological affect and residual risk of these compounds is on the nervous system through enzyme inhibition. However, residual levels of these compounds in drinking water are unlikely to cause a cumulative effect in most aquifers.

D7600 Analysis for Carbamates in Drinking Water (LC/MS/MS)

ASTM Carbamate Standard ASTM Carb			amate Surrogate Standard	
D-7600 At stated conc. (µg/mL) in MeOH	1 mL 5 comps.	D-7600-SS 400 μg/mL in MeO	1 mL	
Ardicarb Carbofuran	200 200	BDMC (4-Bromo	o-3,5-dimethylphenyl-N-methyl carbamate)	
Oxamyl	200	Г		
Methomyl BDMC (4-Bromo-3,5-dimethylphen	200 yl- 400		Carbamate standard solutions in concentrations designed for rapid sample analysis.	
N-methyl carbamate)		L		

D7645 Analysis for Carbamates in Drinking Water (LC/MS/MS)

ASTM Carbamate Standard		ASTM Carbamate Matrix	ASTM Carbamate	
D-7645	1 mL	D-7645-MS	1 mL	D-7645-SS
100 μg/mL each in MeOH	8 comps.	50 μg/mL each in MeOH	7 comps.	D-7645-SS-PAK
Ardicarb		Ardicarb		100 µg/mL in MeOH
Aldicarb sulfone		Aldicarb sulfone		Carbofuran-d3
Aldicarb sulfoxide		Aldicarb sulfoxide		
Carbofuran		Carbofuran		
Oxamyl		Oxamyl		
Methomyl		Methomyl		
Thiofanox		Thiofanox		
Carbofuran-d ₃				



te Surrogate Standard 1 mL 5 x 1 mL