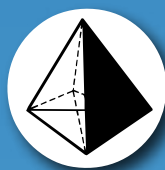


Nitrosamine Standards



AccuStandard[®]

Nitrosamines in Food and Pharmaceuticals

As a "Process Contaminant", N-nitrosamines form as a byproduct during the manufacturing of food and pharmaceuticals. Due to its known carcinogenic and genotoxic characteristics, selective analysis for different Nitrosamines is important to reduce consumer's exposure to these toxic contaminants.

FDA Method - Nitrosamine Impurities in Drugs

FDA-001S

100 µg/mL each in Methanol

1 mL

8 comps.

N-Nitrosodimethylamine N-Nitroso-*n*-ethyl-2-propanamine N-Nitrosodi-*n*-propylamine N-Nitrosodi-*n*-butylamine
 N-Nitrosodiethylamine N-Nitrosodiisopropylamine N-Nitroso-*n*-methylaniline N-Nitroso-*n*-methyl-4-aminobutyric acid

Nitrosamine Compounds

Compound	CAS No.	Conc. (µg/mL)	Matrix	Cat. No.	Unit
N-Nitroso fluoxetine	150494-06-7	100	MeOH	NAS-016S	1 mL
N-Nitrosodicyclohexylamine	947-92-2	100	MeOH	NAS-017S	1 mL
N-Nitroso- <i>n</i> -methyl-4-aminobutyric acid	61445-55-4	100	MeOH	NAS-018S	1 mL
N-Nitroso-diterbutylamine	63819-70-5	100	MeOH	NAS-019S	1 mL
N-Nitrosodiethanolamine	1116-54-7	100	MeOH	NAS-020S	1 mL
1-Cyclopentyl-4-nitrosopiperazine (CPNP)	61379-66-6	100	MeOH	NAS-021S	1 mL
1-Methyl-4-nitrosopiperazine (MNP)	16339-07-4	100	MeOH	NAS-022S	1 mL
N-Nitrosodiisopropylamine (NDIPA)	601-77-4	100	MeOH	NAS-023S	1 mL
N-Nitroso- <i>n</i> -ethyl-2-propanamine (NEIPA)	16339-04-1	100	MeOH	NAS-024S	1 mL
N-Nitrosodiisobutylamine (NDIBA)	997-95-5	100	MeOH	NAS-025S	1 mL
N-Nitrososarcosine (NSAR)	13256-22-9	100	MeOH	NAS-026S	1 mL
N-Nitroso- <i>n</i> -methylaniline (NMPA)	614-00-6	100	MeOH	NAS-027S	1 mL
N-Nitrosodibenzylamine	5336-53-8	100	MeOH	NAS-028S	1 mL
N-Nitrosodiisopropanolamine (NDIPLA)	53609-64-6	100	MeOH	NAS-029S	1 mL
N'-Nitrosornicotine (NNN)	80508-32-2	100	MeOH	NAS-030S	1 mL
N-Methyl- <i>n</i> -nitroso-2-propanamine (NMIPA)	30533-08-5	100	MeOH	NAS-031S	1 mL
N-Nitroso- <i>n</i> -methylbutylamine (MBNA)	7068-83-9	100	MeOH	NAS-033S	1 mL
N-Nitrosodi- <i>n</i> -propylamine-d ₁₄	93951-96-3	100	MeOH	NAS-D-001S	1 mL
N-Nitrosodiethylamine-d ₁₀	1219794-54-3	100	MeOH	NAS-D-003S	1 mL
N-Nitrosodi- <i>n</i> -butylamine-d ₁₈	1219798-82-9	100	MeOH	NAS-D-002S	1 mL
N-Nitrosodimethylamine-d ₆	17829-05-9	100	MeOH	NAS-D-004S	1 mL
N-Nitrosodiethanolamine-d ₈	1173019-53-8	100	MeOH	NAS-D-020S	1 mL
N'-Nitrosornicotine-d ₄	66148-19-4	100	MeOH	NAS-D-030S	1 mL
N-Nitrosodi- <i>n</i> -butylamine	924-16-3	100	CH ₂ Cl ₂	APP-9-147	1 mL
		2000	CH ₂ Cl ₂	APP-9-147-20X	1 mL
N-Nitrosodiethylamine	55-18-5	100	CH ₂ Cl ₂	APP-9-148	1 mL
		2000	CH ₂ Cl ₂	APP-9-148-20X	1 mL
N-Nitrosodimethylamine	62-75-9	100	CH ₂ Cl ₂	APP-9-149	1 mL
		1000	MeOH	APP-9-149-M-10X	1 mL
N-Nitrosodiphenylamine	86-30-6	100	CH ₂ Cl ₂	APP-9-150	1 mL
		1000	MeOH	APP-9-150-M-10X	1 mL
N-Nitrosodi- <i>n</i> -propylamine	621-64-7	100	CH ₂ Cl ₂	APP-9-151	1 mL
		2500	CH ₂ Cl ₂	APP-9-151-25X	1 mL
N-Nitrosomethylethylamine	10595-95-6	100	CH ₂ Cl ₂	APP-9-152	1 mL
N-Nitrosodi- <i>n</i> -propylamine	621-64-7	5000	MeOH	AS-E0060	1 mL
N-Nitrosodiphenylamine	86-30-6	5000	MeOH	AS-E0061	1 mL
N-Nitrosodiethylamine	55-18-5	5000	MeOH	AS-E0334	1 mL
N-Nitroso- <i>n</i> -methyl ethylamine	10595-95-6	1000	MeOH	AS-E0974	1 mL
N-Nitrosodi- <i>n</i> -butylamine	924-16-3	500	Water	M-8015B-5031-20	1 mL

ASTM Method D8456 - Nitrosamines in Water

ASTM D8456 is designed to test for N-nitrosamines in groundwater, surface water, wastewater influents, and wastewater effluents.

Nitrosamines in Water

D-8456

2 µg/mL each in Water:Methanol (98:2)

N-Nitrosodimethylamine N-Nitrosodiethylamine N-Nitrosodi-*n*-propylamine
 N-Nitrosomorpholine N-Nitrosopiperidine N-Nitrosodi-*n*-butylamine
 N-Nitroso-*n*-methyl-4-aminobutyric acid N-Nitroso-*n*-ethyl-2-propanamine N-Nitroso-*n*-methylaniline
 N-Nitrosopyrrolidine N-Nitrosodiisopropylamine N-Nitrosodiphenylamine
 N-Nitrosoethylmethylamine

Nitrosamines in Water (IS)

D-8456-IS

2 µg/mL each in Water:Methanol (98:2)

1 mL

2 comps.

<https://www.accustandard.com/nitrosamine-standards>



Nitrosamine USEPA and EU Methods

The USEPA has developed multiple test methods for the determination of Nitrosamines in drinking water, underground water and municipal and industrial wastewater. Monitoring contaminants such as NDMA, NDEA and other emerging nitrosamines is important for both regulation compliance as well as reducing exposure to these toxins.

EPA Method 521 - Nitrosamines in Drinking Water by SPE and Capillary Column GC

Analyte Stock Solution

M-521
200 µg/mL each in CH₂Cl₂
N-Nitrosodimethylamine
N-Nitrosomethylethylamine
N-Nitrosodiethylamine
N-Nitrosodi-*n*-propylamine

1 x 1 mL
7 comps.

N-Nitrosodi-*n*-butylamine
N-Nitrosopyrrolidine
N-Nitrosopiperidine

Internal Standard Stock Solution

M-521-IS
M-521-IS-PAK
1.0 mg/mL in CH₂Cl₂
N-Nitrosodi-*n*-propylamine-d₁₄

1 x 1 mL
SAVE 5 x 1 mL

Surrogate Standard Stock Solution

M-521-SS
M-521-SS-PAK
1.0 mg/mL in CH₂Cl₂
N-Nitrosodimethylamine-d₆

1 x 1 mL
SAVE 5 x 1 mL

Method 607 - Nitrosamines in Wastewater by GC/NPD

Nitrosamine Mix

M-607
M-607-PAK
At stated conc. (mg/mL) in MeOH

1 x 1 mL
SAVE 5 x 1 mL
3 comps.

N-Nitrosodimethylamine 0.2
N-Nitrosodiphenylamine 0.4
N-Nitrosodi-*n*-propylamine 0.2

Method 8070A - Detection of Nitrosamines by NPD / Reductive Hall or TEA

Nitrosamines

M-8070
M-8070-PAK
2.0 mg/mL each in MeOH

1 x 1 mL
SAVE 5 x 1 mL
3 comps.

N-Nitrosodimethylamine
N-Nitrosodiphenylamine
N-Nitrosodi-*n*-propylamine

Nitrosamines Alternate Mix

M-8270-03-ASL
2.0 mg/mL each in CH₂Cl₂

1 x 1 mL
9 comps.

N-Nitrosodi-*n*-butylamine
N-Nitrosodiethylamine
N-Nitrosodimethylamine
N-Nitrosodiphenylamine
N-Nitrosodi-*n*-propylamine
N-Nitrosomethylethylamine
N-Nitrosomorpholine
N-Nitrosopiperidine
N-Nitrosopyrrolidine

Method 8270 - Nitrosamines in Aqueous Matrices by Capillary Column GC-MS

Semi-Volatile by Capillary Column GC/MS Mix 1

M-8270-01
2 mg/mL each in CH₂Cl₂

1 x 1 mL
17 comps.

Aniline
Benzyl alcohol
bis(2-Chloroethyl) ether
bis(2-Chloroisopropyl) ether
2-Chlorophenol
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Ethylmethanesulfonate
Hexachloroethane
Methylmethanesulfonate
o-Cresol
p-Cresol
N-Nitrosodimethylamine
N-Nitrosodi-*n*-propylamine
Phenol
2-Picoline

Semi-Volatile by Capillary Column GC/MS Mix 2

M-8270-02
2 mg/mL each in CH₂Cl₂

1 x 1 mL
18 comps.

Acetophenone
Benzoic acid
bis(2-Chloroethoxy)methane
4-Chloroaniline
4-Chloro-3-methylphenol
2,4-Dichlorophenol
2,6-Dichlorophenol
α,α-Dimethylphenethylamine
2,4-Dimethylphenol
Hexachlorobutadiene
Isophorone
2-Methylnaphthalene
Naphthalene
Nitrobenzene
2-Nitrophenol
N-Nitroso-di-*n*-butylamine
N-Nitrosopiperidine
1,2,4-Trichlorobenzene

Semi-Volatile by Capillary Column GC/MS Mix 2 Rev.

M-8270-02-R1
2 mg/mL each in CH₂Cl₂

1 x 1 mL
17 comps.

Acetophenone
Benzoic acid
bis(2-Chloroethoxy)methane
4-Chloroaniline
4-Chloro-3-methylphenol
2,4-Dichlorophenol
2,6-Dichlorophenol
2,4-Dimethylphenol
Hexachlorobutadiene
Isophorone
2-Methylnaphthalene
Naphthalene
Nitrobenzene
2-Nitrophenol
N-Nitrosodi-*n*-butylamine
N-Nitrosopiperidine
1,2,4-Trichlorobenzene

Nitrosamine EU and Chinese Methods

EU Method EN 71-12 - Nitrosamines in Toys Reference Standard

EN 71-12 was published to provide test method specifications to help reduce N-Nitrosamines (N-NAs) exposure for children by quantifying traces of these dangerous toxins in toys such as finger paint and balloons.

EN-7112

1000 µg/mL each in MeOH

1 x 1 mL

13 comps.

N-Nitrosodi- <i>n</i> -butylamine	N-Nitroso- <i>n</i> -ethylaniline
N-Nitrosodiethylamine	<i>n</i> -Nitrosodibenzylamine
N-Nitrosodimethylamine	N-Nitrosodiisopropylamine
N-Nitrosodi- <i>n</i> -propylamine	N-Nitrosodiethanolamine
N-Nitrosomorpholine	N-Nitroso- <i>n,n</i> -di(3,5,5-trimethylhexyl)amine
N-Nitrosopiperidine	N-Nitrosodiisobutylamine
N-Nitroso- <i>n</i> -methylaniline	

Chinese GBT 24153 and HJ 809 Nitrosamine Methods

GB/T 24153 Nitrosamines Standard

GBS-003S

100 µg/mL each in MeOH

1 mL

12 comps.

N-Nitrosodimethylamine	N-Nitrosomorpholine
N-Nitrosodiethylamine	N-Nitroso- <i>n</i> -methylaniline
N-Nitrosodi- <i>n</i> -propylamine	N-Nitroso- <i>n</i> -ethylaniline
N-Nitrosodi- <i>n</i> -butylamine	N-Nitrosodibenzylamine
N-Nitrosopiperidine	N-Nitrosoethylmethylamine
N-Nitrosopyrrolidine	N-Nitrosodiphenylamine

HJ 809 Nitrosamines Standard

GBS-004S

2000 µg/mL each in MeOH

1 mL

9 comps.

N-Nitrosoethylmethylamine	N-Nitrosodiphenylamine
N-Nitrosodi- <i>n</i> -butylamine	N-Nitrosomorpholine
N-Nitrosodi- <i>n</i> -propylamine	N-Nitrosopiperidine
N-Nitrosodiethylamine	N-Nitrosopyrrolidine
N-Nitrosodimethylamine	



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