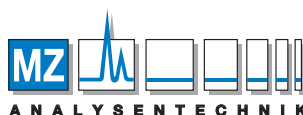


High resolution analysis of nitrosamines in EPA 8270 on Acclaim PolarAdvantage



AUTHORIZED DISTRIBUTOR

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#	Compound Name	Compound Class	RT (min)
1	N-Nitroso-dimethylamine (/Search?CompoundName=N-Nitroso-dimethylamine)	Nitrosamine	5.55
2	N-Nitroso-morpholine (/Search?CompoundName=N-Nitroso-morpholine)	Nitrosamine	8.88
3	N-Nitroso-methylethylamine (/Search?CompoundName=N-Nitroso-methylethylamine)	Nitrosamine	10.01
4	N-Nitroso-pyrrolidine (/Search?CompoundName=N-Nitroso-pyrrolidine)	Nitrosamine	10.46
5	N-Nitroso-diethylamine (/Search?CompoundName=N-Nitroso-diethylamine)	Nitrosamine	14.35
6	N-Nitroso-piperidine (/Search?CompoundName=N-Nitroso-piperidine)	Nitrosamine	15.46
7	N-Nitroso-dipropylamine (/Search?CompoundName=N-Nitroso-dipropylamine)	Nitrosamine	20.18
8	N-Nitroso-dibutylamine (/Search?CompoundName=N-Nitroso-dibutylamine)	Nitrosamine	23.33
9	N-Nitroso-diphenylamine (/Search?CompoundName=N-Nitroso-diphenylamine)	Nitrosamine	24.44

Instrument

Instrument type	HPLC
Manufacturer	Thermo Scientific
Detector 1 Type	UV

Columns

Manufacturer	Thermo Fisher Scientific
Brand	Thermo Scientific
Model	Acclaim PolarAdvantage
Diameter	4.6 mm
Length	250 mm
Particle Size	5 µm
Stationary Phase	Polar Embedded
Catalog #	061321

Guard

Name	Guard holder
Manufacturer	Thermo Fisher Scientific
Brand	Thermo Scientific
Type	Guard
Catalog #	069707
Description	Acclaim Guard Kit (Holder and Coupler) (recommended)

Name	Guard cartridges
Manufacturer	Thermo Fisher Scientific
Brand	Thermo Scientific
Type	Guard
Catalog #	069698
Description	Acclaim PolarAdvantage guard cartridges, 5 µm, 10 x 4.6 mm (recommended)

Method Parameters

Run Time Length	35 min
Column Oven 1 Temp	30 °C
Injection Volume	15 µL
UV Wavelength 1	230 nm
Pump Eluent A	water
Pump Eluent B	acetonitrile

Gradient LPG-3400

Ret Time (min)	Flow (mL/min)	%B	%C	%D
0.000	1.000	1.0	0.0	0.0
5.000	1.000	1.0	0.0	0.0
25.000	1.000	90.0	0.0	0.0
30.000	1.000	90.0	0.0	0.0
30.100	1.000	1.0	0.0	0.0
35.000	1.000	1.0	0.0	0.0