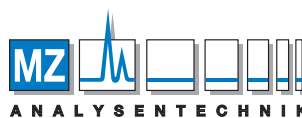


Determining Nitrosamines Using GC-MS_{MS} with Electron Ionization on TG-WAX MS



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#	Compound Name	Compound Class	RT (min)
1	N-Nitrosodimethylamine (/Search?CompoundName=N-Nitrosodimethylamine)	nitrosamines	7.77
2	N-Nitrosodimethylamine-d6 (/Search?CompoundName=N-Nitrosodimethylamine-d6)	nitrosamines	7.78
3	N-Nitrosomethylethylamine (/Search?CompoundName=N-Nitrosomethylethylamine)	nitrosamines	8.19
4	N-Nitrosodiethylamine (/Search?CompoundName=N-Nitrosodiethylamine)	nitrosamines	8.46
5	N-nitrosodi-n-propylamine-d14 (/Search?CompoundName=N-%20nitrosodi-n-propylamine-d14)	nitrosamines	9.59
6	N-Nitrosodi-n-propylamine (/Search?CompoundName=N-Nitrosodi-n-propylamine)	nitrosamines	9.67
7	N-Nitrosodi-n-butylamine (/Search?CompoundName=N-Nitrosodi-n-butylamine)	nitrosamines	11.27
8	N-Nitrosopiperidine (/Search?CompoundName=N-Nitrosopiperidine)	nitrosamines	11.70
9	Nitrosopyrrolidine (/Search?CompoundName=Nitrosopyrrolidine)	nitrosamines	12.00

Instrument

Instrument type	GCMSMS
Manufacturer	Thermo Fisher Scientific
System	TSQ Duo Triple Quadrupole GC-MS/MS
GC Model	TRACE 1310 Gas Chromatograph

Columns

Manufacturer	Thermo Fisher Scientific
Brand	Thermo Scientific
Model	TG-WAX MS
Length	30 m
Inner Diameter	0.25 mm
Film Thickness	0.5 µm
Stationary Phase	acid-deactivated polyethylene glycol
Catalog #	26087-2230

Other

Name	SSL Liner
Manufacturer	Thermo Fisher Scientific
Brand	Therm Scientific
Type	Other
Catalog #	453A1925
Description	deactivated single taper splitless liner

Method Parameters

Run Time Length	16 min
Injection Volume	1.0 ul
GC Inlet Temperature	250 °C
GC Inlet Mode	Splitless with surge
GC Split Flow	40mL/min
GC Splitless Time	1 min
GC Carrier Gas	Helium
GC Carrier Gas Flow	1.2 mL/min
MS Transfer Line Temperature	250°C
MS Ionization Type	EI
MS Source Temp	200°C

Gradient GC Oven

Step#	Rate (C/min)	Temperature (C)	Hold Time (min)
1	0.0	45.0	3.00
2	25.0	130.0	0.00
3	12.0	230.0	1.00