

Materials List for:

Nitrogen Compound Characterization in Fuels by Multidimensional Gas Chromatography

Rachel D. Deese^{1,2}, Robert E. Morris³, Mark Romanczyk⁴, Alison E. Metz⁵, Thomas N. Loegel¹

¹U.S. Naval Research Laboratory

²NRC Research Associateships Programs

³Nova Research, Inc.

⁴Peraton

⁵Naval Air Systems Command, Air-4.4.5.

Correspondence to: Rachel D. Deese at rachel.deese.ctr@nrl.navy.mil

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Materials

Name	Company	Catalog Number	Comments
10 µL syringe	Agilent		gold series
180 µm x 0.18 µm Secondary Column	Restek	Rxi-1MS	nonpolar phase column, crossbond dimethyl polysiloxane
250 µm x 0.25 µm Primary Column	Restek	Rxi-17SiIMS	midpolarity phase column
Autosampler tray and tower	Agilent	7963A	
Carbazole	Sigma	C5132	98%
Diethylaniline	Aldrich	185898	≥ 99%
Dimethylindole	Aldrich	D166006	97%
Dual Loop Thermal Modulator	Zoex Corporation	ZX-1	
Ethylcarbazole	Aldrich	E16600	97%
Gas chromatograph	Agilent	7890B	
GC vials	Restek	21142	
GCImage Software, Version 2.6	Zoex Corporation		
Indole	Aldrich	13408	≥ 99%
Isopropyl Alcohol	Fisher Scientific	A461-500	Purity 99.9%
Methylaniline	Aldrich	236233	≥ 99%
Methylquinoline	Aldrich	382493	99%
Nitrogen Chemiluminescence Detector	Agilent	8255	
Pyridine	Sigma-Aldrich	270970	anhydrous, 99.8%
Quinoline	Aldrich	241571	98%
Trimethylamine	Sigma-Aldrich	243205	anhydrous, ≥ 99%