

## Speciated Nitrogen Standards for the Identification and Quantification of Nitrogen Compounds in Petroleum Products.

DCG has available NIST traceable by weight, gravimetrically prepared, calibration standards for the identification and quantification of Nitrogen compounds found in different petroleum products. These standards, in addition to being gravimetrically prepared and NIST traceable by weight, have been verified by one or more analytical methods. Custom standards or different matrices are available upon request

**Part #: Speciated Nitrogen Cal Kit 1:** \$300.00 per kit. Kit contains 1 each of p-Xylene blank and Standards 1-5, packaged in 1 mL. pre-scored amber ampoules.

Concentration: Weight

Compound	Std 1	Std 2	Std 3	Std 4	Std 5
Pyrrole	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
2,5-Dimethylpyrrole	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
Indole	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
2-Methylindole	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
Carbazole	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
n-Ethylcarbazole	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
9-Phenylcarbazole	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
Balance	p-Xylene	p-Xylene	p-Xylene	p-Xylene	p-Xylene

**Part #: Speciated Nitrogen Check Standard 1:** \$50.00 per 1 mL. pre-scored amber ampoule containing Speciated Nitrogen compounds in p-Xylene.

Concentration: Weight

Compound	Concentration
Pyrrole	20.0 ppm
2,5-Dimethylpyrrole	30.0 ppm
Indole	40.0 ppm
2-Methylindole	50.0 ppm
Carbazole	60.0 ppm
n-Ethylcarbazole	70.0 ppm
9-Phenylcabazole	80.0 ppm
p-Xylene	Balance

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Chromatographic Reference Materials



**Part #: Speciated Nitrogen Cal Kit 2:** \$300.00 per kit. Kit contains 1 each of p-Xylene blank and Standards 1-5, packaged in 1 mL. pre-scored amber ampoules.

Concentration: Weight

Compound	Std 1	Std 2	Std 3	Std 4	Std 5
Aniline	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
n-Methylaniline	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
n-Ethylaniline	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
Quinoline	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
6-Methylquinoline	1.00 ppm	10.0 ppm	50.0ppm	100 ppm	300 ppm
Acridine	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
4-Decylaniline	1.00 ppm	10.0 ppm	50.0 ppm	100 ppm	300 ppm
Balance	p-Xylene	p-Xylene	p-Xylene	p-Xylene	p-Xylene

**Part #: Speciated Nitrogen Check Standard 2:** \$50.00 per 1 mL. pre-scored amber ampoule containing Speciated Nitrogen compounds in p-Xylene.

Concentration: Weight

Compound	Concentration
Aniline	20.0 ppm
n-Methylaniline	30.0 ppm
n-Ethylaniline	40.0 ppm
Quinoline	50.0 ppm
6-Methylquinoline	60.0 ppm
Acridine	70.0 ppm
4-Decylaniline	80.0 ppm
p-Xylene	Balance

Prices Subject to Change

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