

Basic Compounds Analysis

Rtx®-5 Amine (low polarity phase; Crossbond® 5% diphenyl/95% dimethyl polysiloxane)

- Application-specific columns for amines and other basic compounds, including alkylamines, diamines, triamines, ethanolamines, and nitrogen-containing heterocyclics.
- Stable to 315°C.

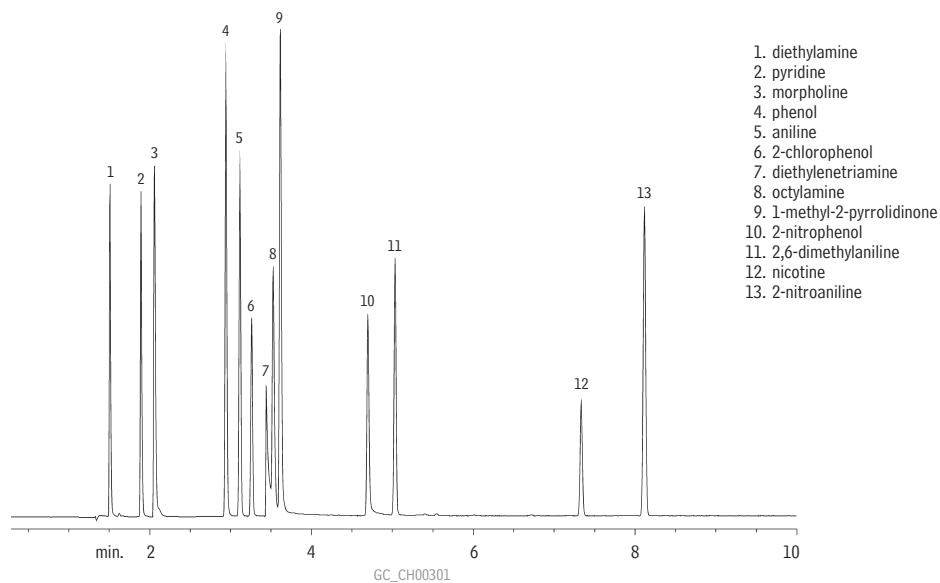
Active basic compounds that otherwise require derivatization, or an alternative analytical technique, can be analyzed on an Rtx®-5 Amine column. The tubing surface is chemically altered to reduce tailing of basic compounds, eliminating the need for column priming. An Rtx®-5 Amine column is ideal for analyzing a wide variety of basic compounds, but breakthrough technology also allows the analysis of neutral compounds, adsorptive compounds with oxygen groups susceptible to hydrogen bonding, or even weakly acidic compounds such as phenols. Every Rtx®-5 Amine column is tested to ensure that it exceeds the requirements for analyzing ppm levels of amines, without priming, and to ensure low bleed at maximum operating temperature.

Rtx®-5 Amine Columns (fused silica)

(Crossbond® 5% diphenyl/95% dimethyl polysiloxane)

ID	df (µm)	temp. limits	15-Meter	30-Meter
0.25mm	0.25	-60 to 300/315°C	12320	12323
	0.50	-60 to 300/315°C	12335	12338
	1.00	-60 to 300/315°C	12350	12353
0.32mm	1.00	-60 to 300/315°C	12351	12354
	1.50	-60 to 290/305°C	12366	12369
0.53mm	1.00	-60 to 290/305°C	12352	12355
	3.00	-60 to 280/295°C	12382	12385

Excellent peak shapes for amines & phenols on an Rtx®-5 Amine column.



Column: Rtx®-5 Amine, 30m, 0.32mm ID, 1.0µm (cat.# 12354)
 Inj.: 1.0µL split injection of amines and phenols in water
 On-column conc.: 22ng
 Oven temp.: 120°C to 220°C @ 10°C/min.
 Inj./det. temp.: 305°C
 Carrier gas: hydrogen
 Linear velocity: 38cm/sec. set @ 120°C
 FID sensitivity: 6.4 x 10⁻¹¹ AFS
 Split ratio: 25:1

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innovation!

similar **phase**

PTA-5

also **available**

See page 58 for Rtx®-35
Amine columns.

please **note**

We recommend using base-deactivated fused silica guard columns (page 29) and base-deactivated liners (Instrument Supplies section of this catalog) with Rtx®-5 Amine columns.

Table of Contents for
Applications

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