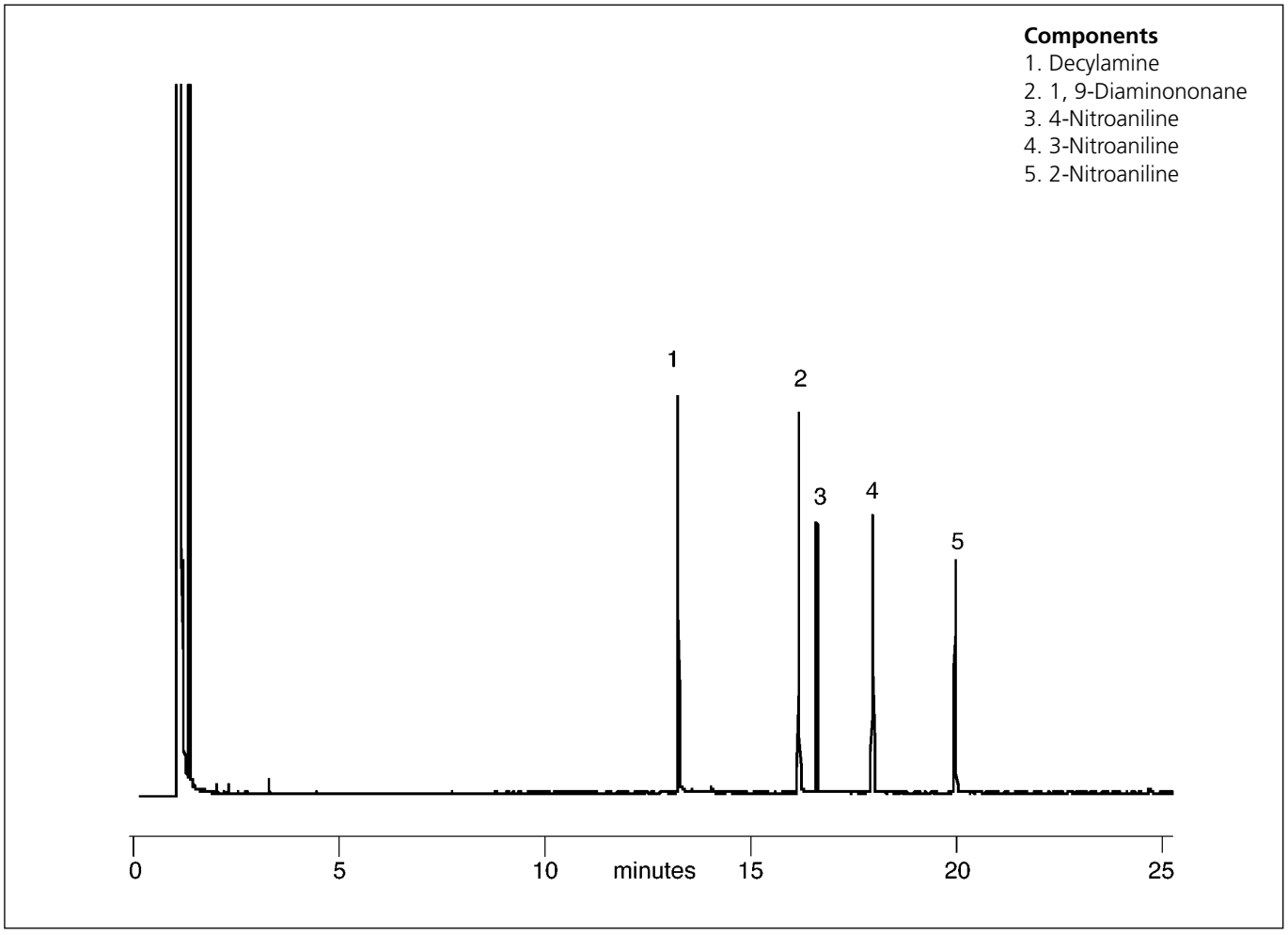
ANALYSIS OF AMINES ON BPX5

Column Part No.: 054113

Phase:	BPX5, 0.25 µm
Column:	25 m x 0.22 mm I.D.
Initial Temp.:	40 °C, 1 min
Rate:	8 °C/min
Final Temp.:	360 °C
Detector:	FID, 380 °C
Injector:	Split
Carrier Gas:	H2, 12 psi

Notes: BPX5 is a chemically inert column ideal for aromatic amine analysis



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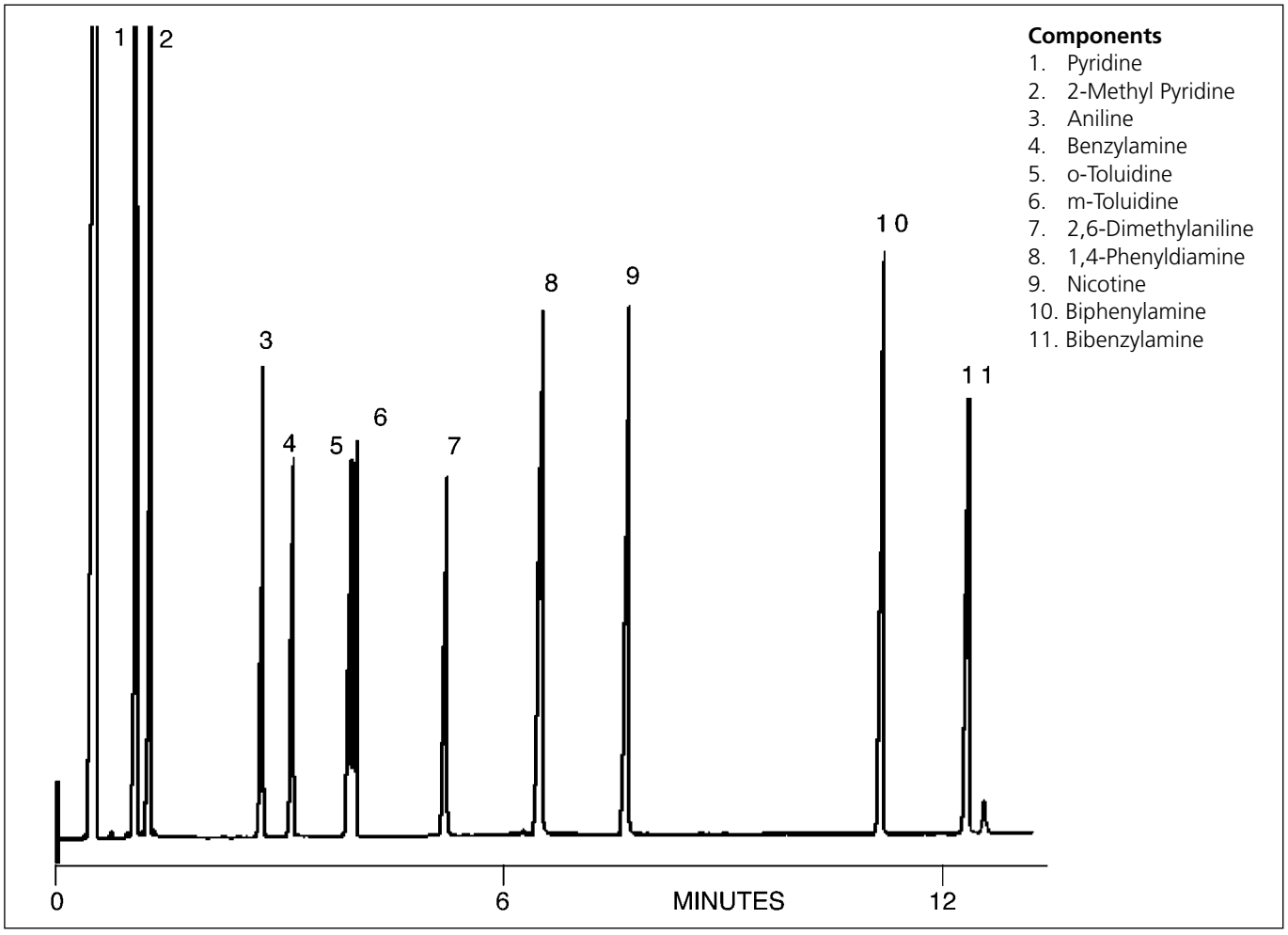
ANALYSIS OF AROMATIC AMINES ON BP5

Column Part No.: 054197

Phase:	BP5, 1.0 µm film
Column:	12 m x 0.53 mm ID
Initial Temp:	60 °C, 0 min
Rate:	10 °C/min
Final Temp:	190 °C, 0 min
Detector:	FID
Sensitivity :	128 x 10^{-12} AFS
Injection Mode:	Split



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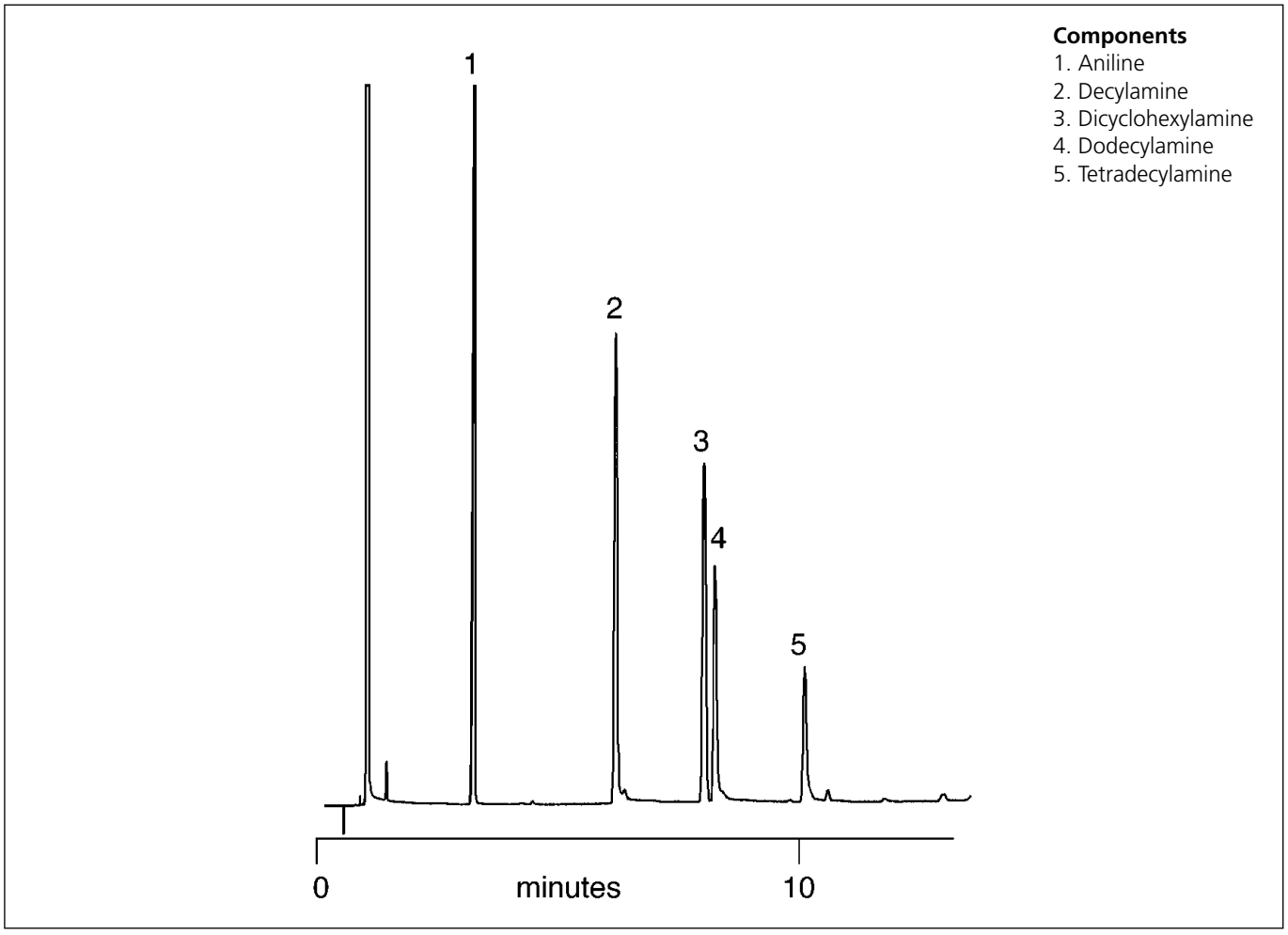
ANALYSIS OF AMINES ON BP1

Column Part No:	**054097**
Phase:	BP1, 3.0 µm film
Column:	12 m x 0.53 mm ID
Initial Temp:	70 °C
Rate:	10 °C/min
Final Temp.:	250 °C
Carrier Gas:	Nitrogen
Injection Volume:	0.1 µL



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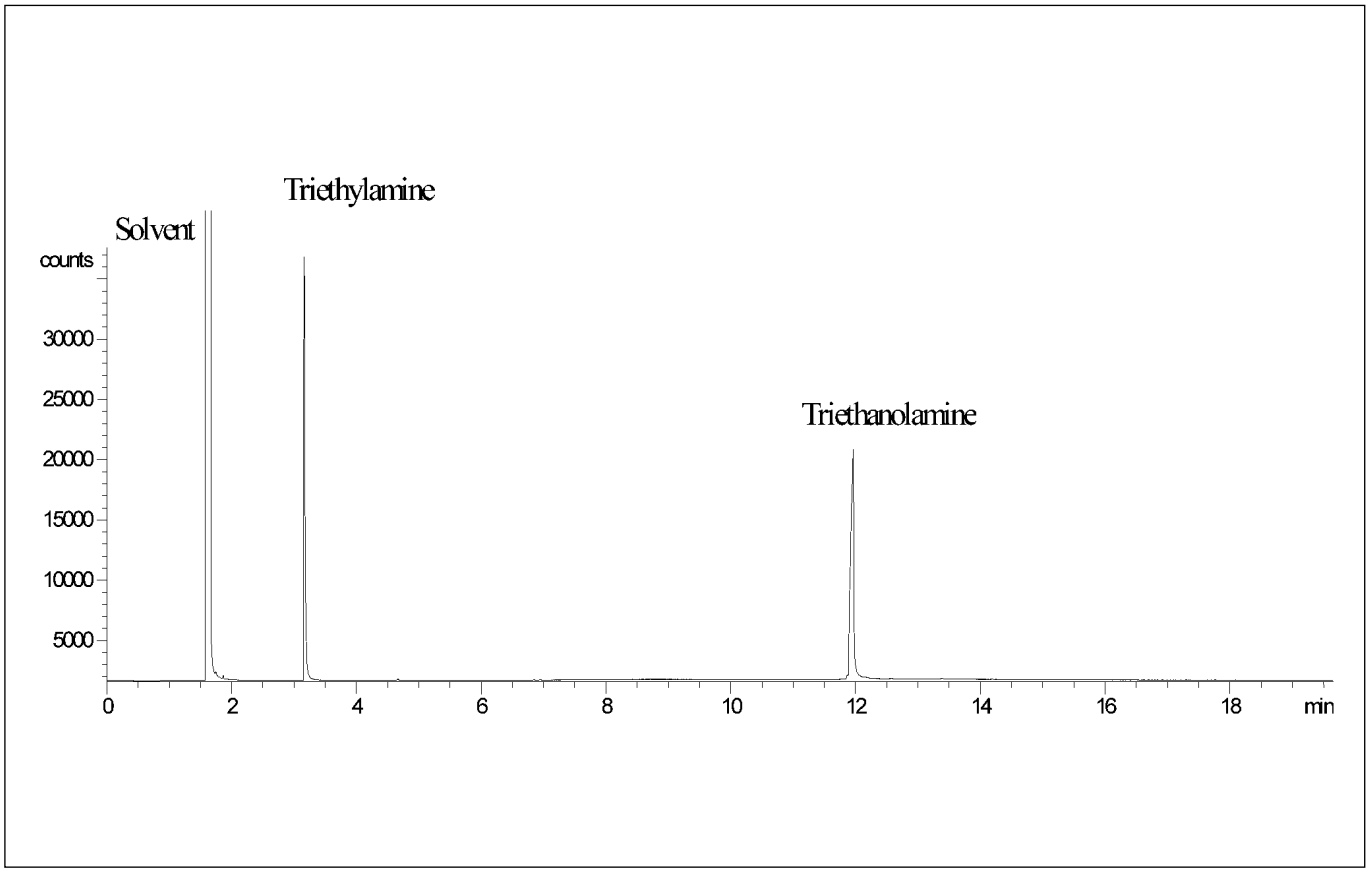
ANALYSIS OF TRIETHYLAMINE AND TRIETHANOLAMINE ON SOLGEL-1MS™

Column Part No:	**054798**	Carrier Gas Flow:	2.2 mL/min
Phase:	SolGel-1ms™, 0.25 µm film	Constant Flow:	On
Amine mix:	10 ng/µl in dichloromethane	Average	
Column:	30 m x 0.32 mm ID	Linear Velocity:	35 cm/sec at 100 °C
Initial Temp:	40 °C, 5.0 min	Mode of Injection:	Split
Rate 1:	20 °C/min to 200 °C	Split Ratio:	50:1
Final Temp:	200 °C, 7 min	Injection Volume:	0.3 µL
Detector Type:	FID	Injection Temp:	250 °C
Detector Temp:	300 °C	Autosampler:	No
Carrier Gas:	Helium, 9.9 psi		



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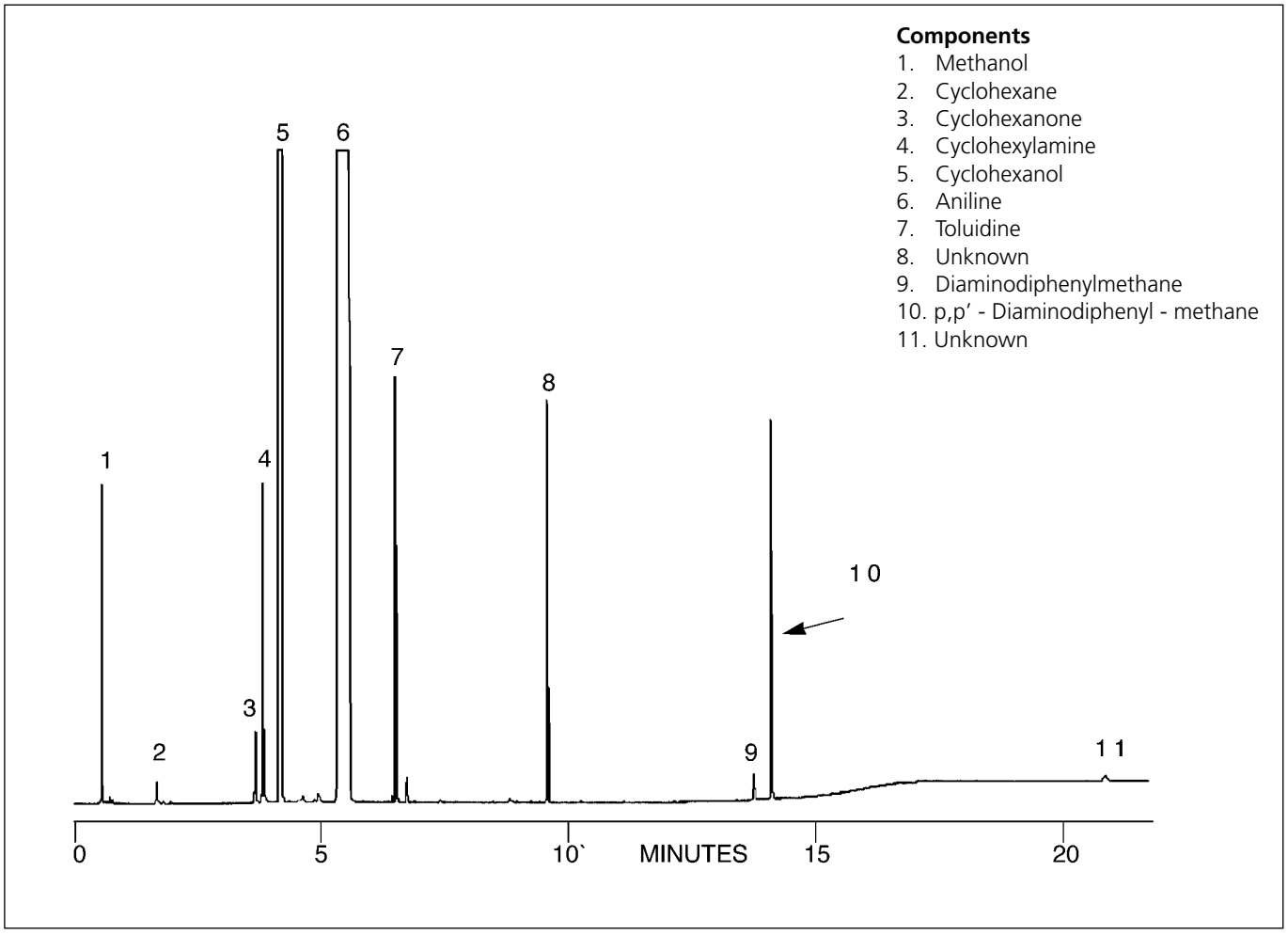
ANALYSIS OF ANILINE IMPURITIES ON BPX5

ANILINE IMPURITIES

Column Part No.: 054127	
Phase:	BPX5, 1.0 µm
Column:	12 m x 0.32 mm I.D.
Initial Temp.:	50 °C, 1 min
Rate 1:	15 °C/min
Final Temp.1:	120 °C
Rate 2:	20 °C/min
Final Temp.2:	330 °C, 10 min
Detector:	FID, 380 °C
Injector:	Split
Carrier Gas:	He, 4 psi

Notes: Thick film BPX5 column provides excellent separation with high temperature compatibility



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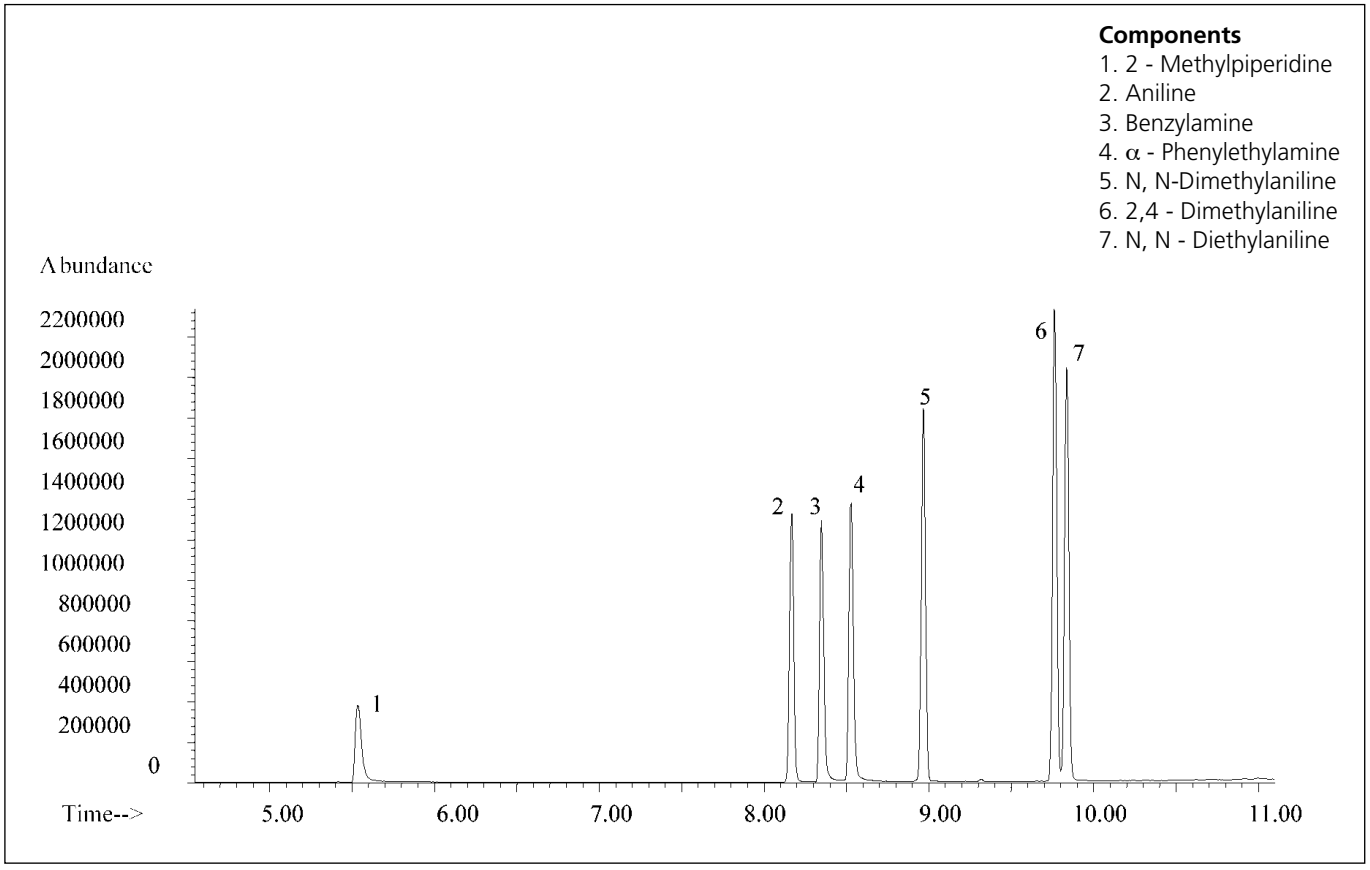
ANALYSIS OF AROMATIC AMINES ON BPX35

Column Part No:	**Custom Made**, for further information contact our technical support team	Constant Flow: Average	On
Phase:	BPX35 1.8 µm film	Linear Velocity:	41 cm/sec at 40 °C
Amine mixture:	100 ng/µL in dichloromethane	Injection Mode:	Split
Column:	30 m x 0.32 mm ID	Purge on Time:	0.5 min
Initial Temp:	40 °C, 1 min	Purge on (Split) Vent Flow:	60 mL/min
Rate 1:	20 °C/min to 240 °C	Injection Volume:	0.1 µL
Final Temp:	240 °C, 7 min	Injection Temp:	250 °C
Detector Type:	Mass Spectrometer	Liner Type:	4 mm ID Double Taper Liner
Carrier Gas:	He, 10.8 psi	Liner Part No:	092018
Carrier Gas Flow:	1.3 mL/min		



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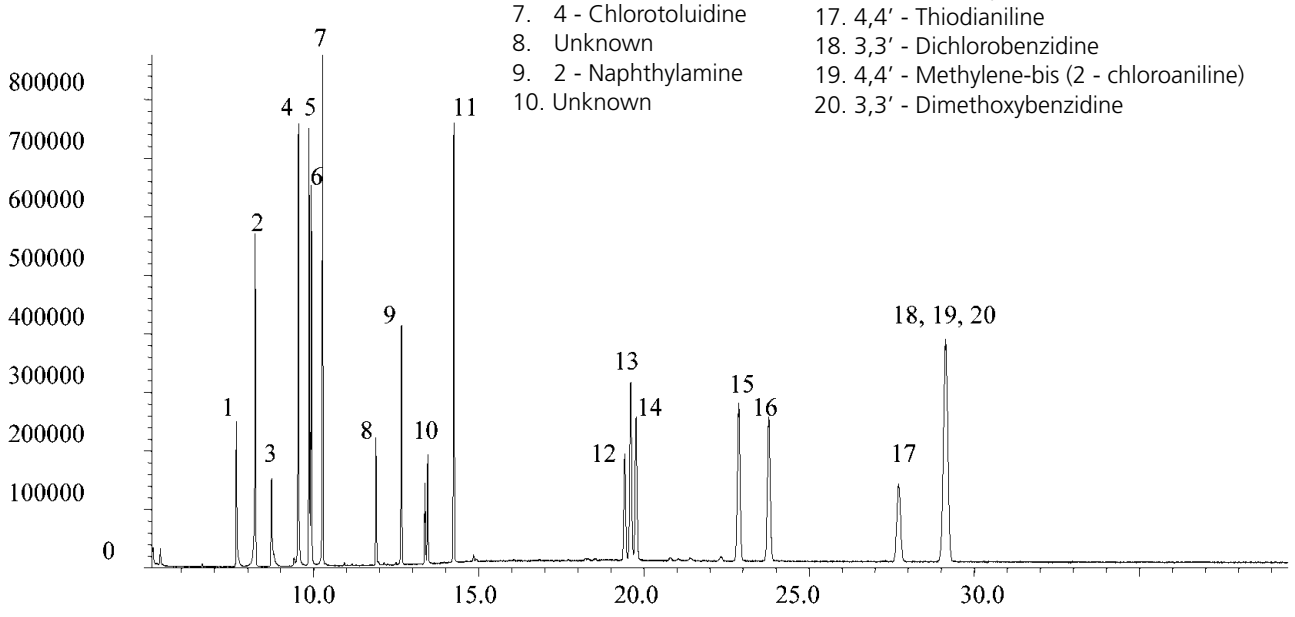
ANALYSIS OF AROMATIC AMINES FROM DIAZO DYES ON BPX35

Column Part No:	**054701**
Phase:	BPX35 0.25 µm film
Azo Dyes standard:	10 ppm solution in DCM
Column:	30 m x 0.25 mm ID
Initial Temp:	50 °C, 2 min
Rate 1:	15 °C to 240 °C
Rate 2:	10 °C to 280 °C
Final Temp:	280 °C, 25 min
Detector Type:	MSD
Carrier Gas:	He, 7.1 psi
Carrier Gas Flow:	1.0 mL/min
Constant Flow:	On

Average Linear Velocity:	36 cm/sec at 50 °C
Injection Mode:	Splitless
Purge on Time:	1.0 min
Purge on (Split) Vent Flow:	60 mL/min
Injection Volume:	1 µL
Injection Temp:	250 °C
Liner Type:	4 mm ID Double Taper Liner
Liner Part No:	092018



Components

1. Indolin
2. o - Toluidine
3. 2,4 - Diaminoanisole
4. p - Chloroaniline
5. p - Cresidine
6. 2,4,6 - Trimethylaniline
7. 4 - Chlorotoluidine
8. Unknown
9. 2 - Naphthylamine
10. Unknown
11. 4 - Aminodiphenyl
12. 4,4′ - Oxydianiline
13. 4,4′ - Diaminodiphenylmethane
14. Benzidine
15. 3,3′ - Dimethyl-4,4′ - diaminodiphenylmethane
16. 3,3′ - Dimethylbenzidine
17. 4,4′ - Thiodianiline
18. 3,3′ - Dichlorobenzidine
19. 4,4′ - Methylene-bis (2 - chloroaniline)
20. 3,3′ - Dimethoxybenzidine

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