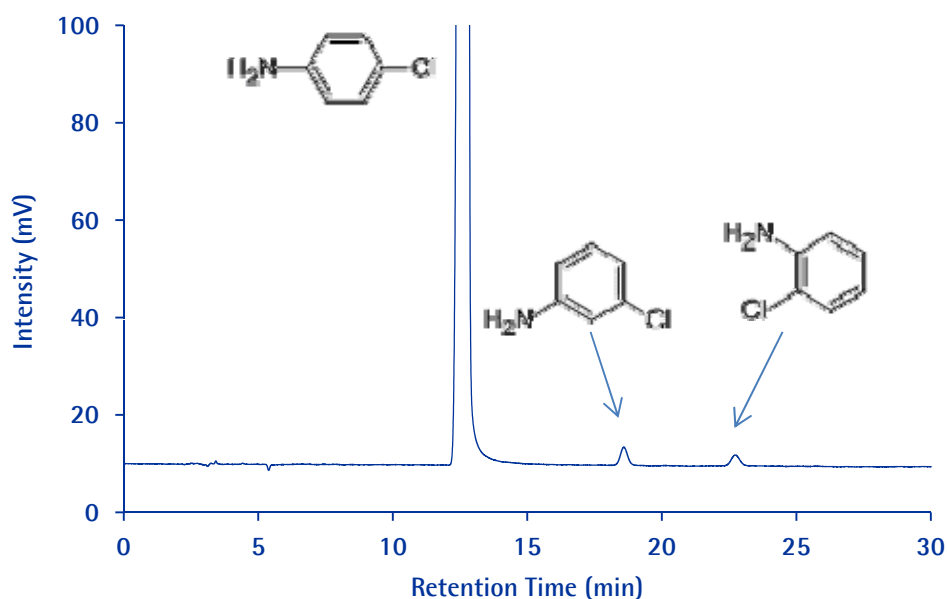


4-Chloroaniline and Related Substances

Purospher® STAR RP-18 endcapped

Chromatographic Conditions

Column:	Purospher® STAR RP-18 endcapped (5µm) Hibar® RT 250x4.6 mm	1.51456.0001
Injection:	10 µL	
Detection:	UV 220 nm	
Cell:	10 µL	
Flow Rate:	1.0 mL/min	
Mobile Phase:	2 mL triethylamine in 1000 mL Milli-Q water. Adjust pH to 3.0 ± 0.1 with orthophosphoric acid. Mix buffer and acetonitrile 70:30 (v/v)	
Temperature:	25 °C	
Diluent:	Mobile phase	
Sample:	500 ppm of 4-Chloroaniline, 1 ppm of each 3-Chloroaniline and 2-Chloroaniline in diluent	
Pressure Drop:	150 Bar (2175 psi)	



Chromatographic Data

No.	Compound	Retention Time (min)	Resolution	Theoretical plates*
1	4-Chloroaniline	12.7	-	12490
2	3-Chloroaniline	18.6	12.3	22606
3	2-Chloroaniline	22.7	7.7	24143