APPLICATION NOTE

YMC EUROPE GMBH

Separation of methoxybenzenes

If you want to go fast – go with YMC-Triart!

As a ϖ-electron acceptor YMC-Triart Phenyl is perfectly suited for the separation of the aromatic methoxybenzenes. The U(H)PLC method also enables baseline separation of the three dimethoxybenzene and two trimethoxybenzene positional isomers.

Less than 3 minutes for 5 methoxybenzenes on YMC-Triart Phenyl*

*stable under 100% aqueous conditions

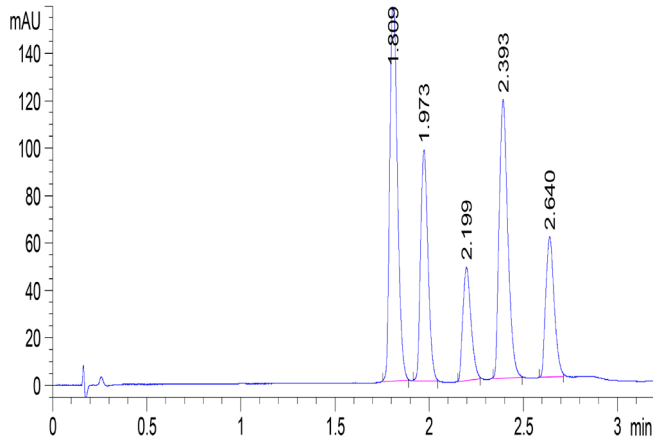
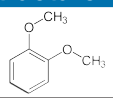
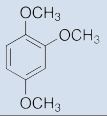
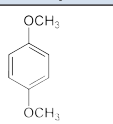
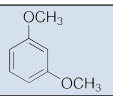
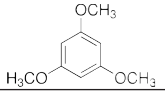


Figure 1: Separation of methoxybenzenes using YMC-Triart Phenyl.

Table 1: Method details

Column	YMC-Triart Phenyl 1.9 µm, 12 nm, 50 x 2 mm ID	
Part No.	TPH12SP9-0502PT	
Eluent	A: Water B: Methanol	
Gradient	Time [min] 0 4 5	Eluent B [%] 20 80 80
Flow rate	0.9 mL/min	
Temperature	25°C	
Detection	UV at 254 nm	
Injection	1.5 µL dissolved in methanol	

Table 2: Chlorophenols analysed

Retention time	Analyte	Structure	Concentration
1.8 min	1,2-Dimethoxybenzene (Veratrole)		1 µL/mL
1.9 min	1,2,4-Trimethoxybenzene		1 µL/mL
2.1 min	1,4-Dimethoxybenzene		1 mg/mL
2.3 min	1,3-Dimethoxybenzene		1 µL/mL
2.6 min	1,3,5-Trimethoxybenzene		1 mg/mL

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