

# Lubricant Additives: ADPA/OPNA Antioxidants

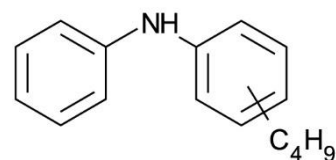
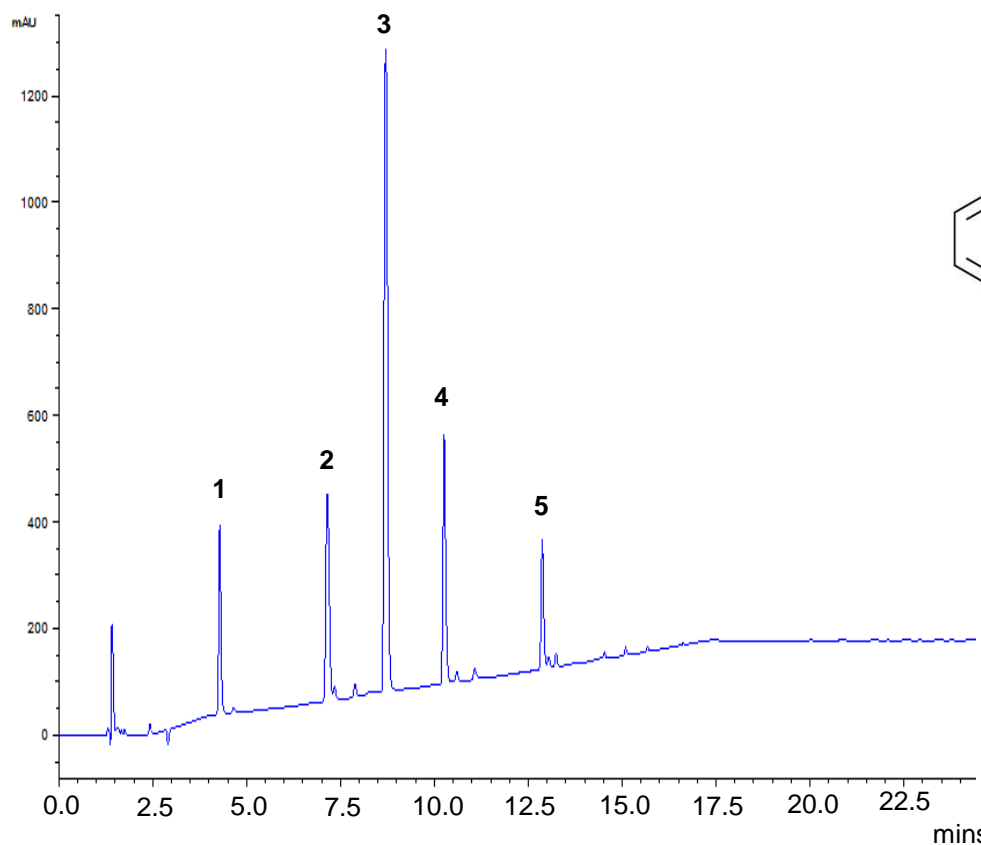
Application #AN1170

## Conditions

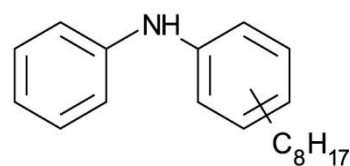
Column: ACE UltraCore 2.5 SuperC18  
Dimensions: 150 x 4.6 mm  
Part Number: CORE-25A-1546  
Mobile Phase: A: 0.1% formic acid in H<sub>2</sub>O  
B: 0.1% formic acid in MeCN/IPA (1:2 v/v)

Time (mins)	%B
0.0	65.0
15.0	97.5
25.0	97.5
25.1	65.0

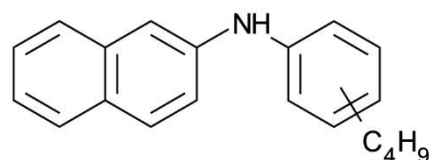
Flow Rate: 1 mL/min  
Temperature: 60 °C  
Detection: UV, 220 nm



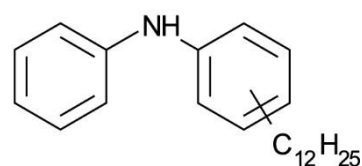
1. C4-ADPA



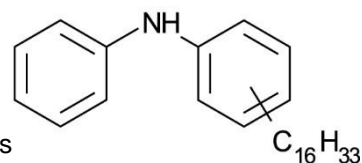
2. C8-ADPA



3. C4-OPNA



4. C12-ADPA



5. C16-ADPA