



# Glycerides

## Application Note

Food Testing & Agriculture

### Authors

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### Introduction

Gas chromatography using an Agilent CP-Sil 5 CB column separates 21 glycerides in 30 minutes.



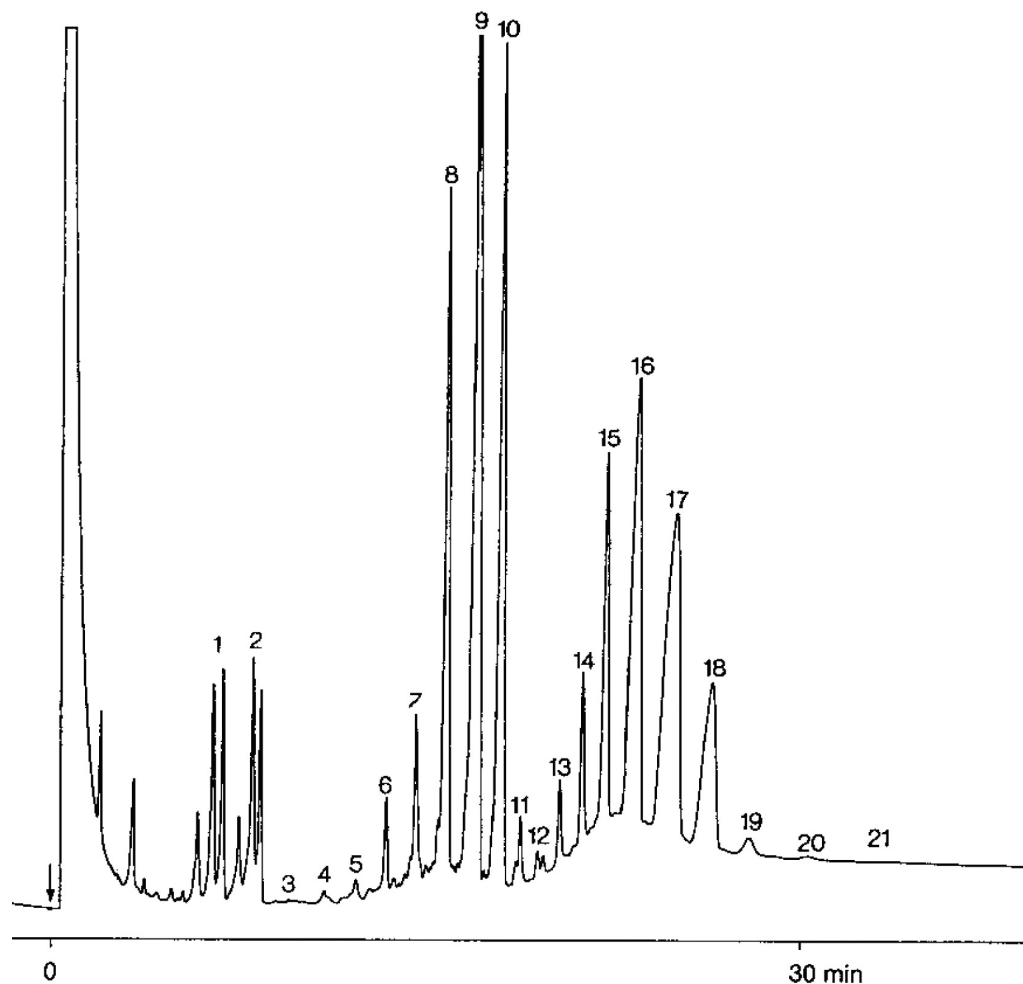
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## Conditions

Technique : GC-capillary  
Column : Agilent CP-Sil 5 CB, 0.32 mm x 10 m fused silica  
WCOT CP-Sil 5 CB (0.2  $\mu$ m) (Custom-made)  
Temperature : 150 °C  $\rightarrow$  360 °C, 10 °C/min  
Carrier Gas : N<sub>2</sub>, 200 kPa (2 bar, 29 psi) 42 cm/s  
Injector : On-column  
Detector : FID, 512 x 10<sup>-12</sup> Afs  
T = 350 °C  
Sample Size : 1  $\mu$ L

## Peak identification

1. mono-C<sub>16</sub>
2. mono-C<sub>18</sub>
3. di-C<sub>22</sub>
4. di-C<sub>24</sub>
5. di-C<sub>26</sub>
6. di-C<sub>28</sub>
7. di-C<sub>30</sub>
8. di-C<sub>32</sub>
9. di-C<sub>34</sub>
10. di-C<sub>36</sub>
11. di-C<sub>38</sub>
12. di-C<sub>40</sub> + tri-C<sub>42</sub>
13. tri-C<sub>44</sub>
14. tri-C<sub>46</sub>
15. tri-C<sub>48</sub>
16. tri-C<sub>50</sub>
17. tri-C<sub>52</sub>
18. tri-C<sub>54</sub>
19. tri-C<sub>56</sub>
20. tri-C<sub>58</sub>
21. tri-C<sub>60</sub>



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