

ISO 21846:2025-10 (E)

Vegetable fats and oils - Determination of composition of triacylglycerols and composition and content of diacylglycerols by capillary gas chromatography

| Contents | | Page |
|--|--|-------------|
| Foreword..... | | iv |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Principle | 1 |
| 5 | Apparatus | 2 |
| 6 | Reagents | 2 |
| 7 | Procedure | 3 |
| 7.1 | Gas chromatographic apparatus and capillary column condition..... | 3 |
| 7.2 | Choice of operating conditions..... | 3 |
| 7.3 | Performance of the analysis..... | 3 |
| 7.4 | Peak identification..... | 3 |
| 7.5 | Determination of percentage content of each triacylglycerol class..... | 3 |
| 7.6 | Determination of percentage content of each 1,2 diacylglycerol..... | 4 |
| 7.7 | Determination of weight percentage total content of diacylglycerols..... | 4 |
| 8 | Expression of results | 4 |
| 9 | Precision of the method | 5 |
| 9.1 | Repeatability, <i>r</i> | 5 |
| 9.2 | Reproducibility, <i>R</i> | 5 |
| 10 | Test report | 5 |
| Annex A (informative) Examples of a typical chromatograms | | 6 |
| Annex B (informative) Results of an interlaboratory test | | 11 |
| Bibliography | | 13 |