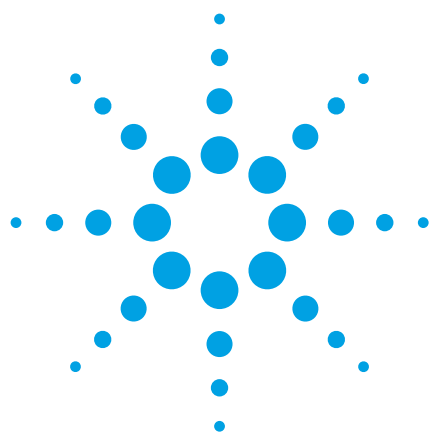




Separation of four Slip Agents

Separation of saturated and unsaturated fatty acid monoamides

Application Note

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Introduction

Fatty acid monoamides are widely used in the production of polymeric films as slip agents (lubricants) and in the food industry as anti-adhesives. The advantage in using fatty acid monoamides is their biodegradability. The unsaturated amides show a better performance than their saturated analogues. Some of these amides are also endogenous bioactive substances and cause sleepiness.



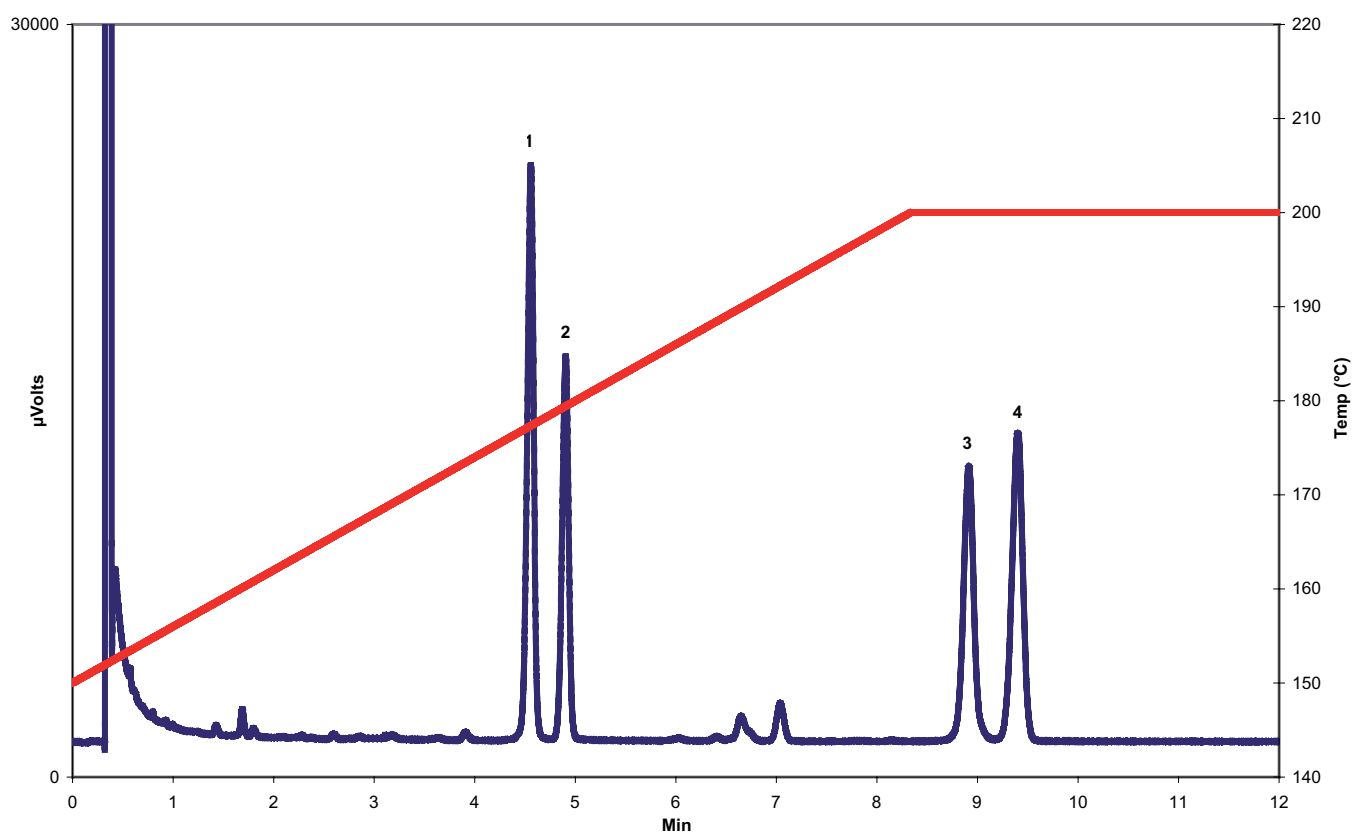
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Methods and Materials

Technique: GC-Capillary Wide Bore
Column: CP-Sil 5 CB, 0.53 mm x 15 m, df = 0.15 µm
(part number CP8673)
Carrier Gas: Helium at 10 mL/min
Temp Program: 150 °C - 6 °C/min - 200°C until end
Injector: 1041 Packed/Wide Bore On-Column
(PWOC) Injector
Detector: Flame Ionization Detector at 250 °C

Table 1. Peak Identification

Peak	Component	IUPAC Name
1	Oleamide	(9Z)-Octadec-9-enamide
2	Stearamide	Octadecanamide
3	Erucamide	(13Z)-Docos-13-enamide
4	Behenamide	Docosanamide



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