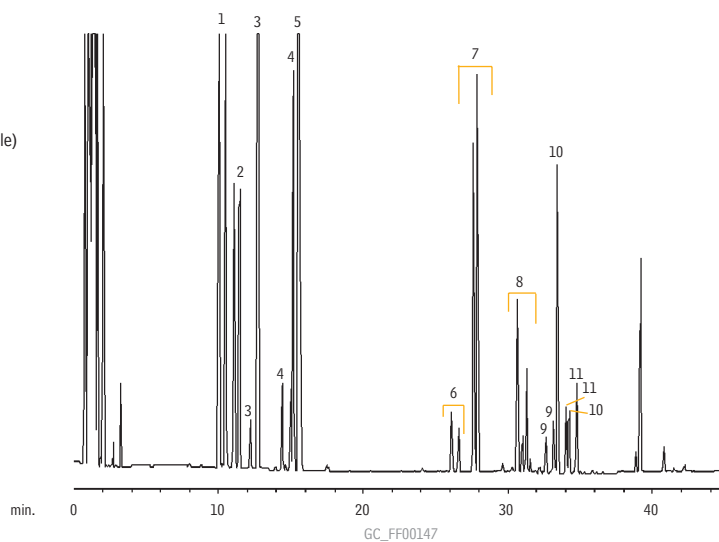


Chiral Separations

Rosemary Oil

Rt®-βDEXsm

1. (-/+)-α-pinene
2. (+/-)-camphene
3. (+/-)-β-pinene
4. (-/+)-limonene
5. eucalyptol (1,8-cineole)
6. (-/+)-linalool
7. (+/-)-camphor
8. (-/+)-terpinen-4-ol
9. (+/-)-isoborneol
10. (+/-)-borneol
11. (+/-)-α-terpineol



Column: Rt®-βDEXsm, 30m, 0.32mm ID, 0.25μm
(cat.# 13104)

Oven temp.: 40°C (hold 1 min.) to 200°C
@ 2°C/min. (hold 3 min.)

Carrier gas: hydrogen

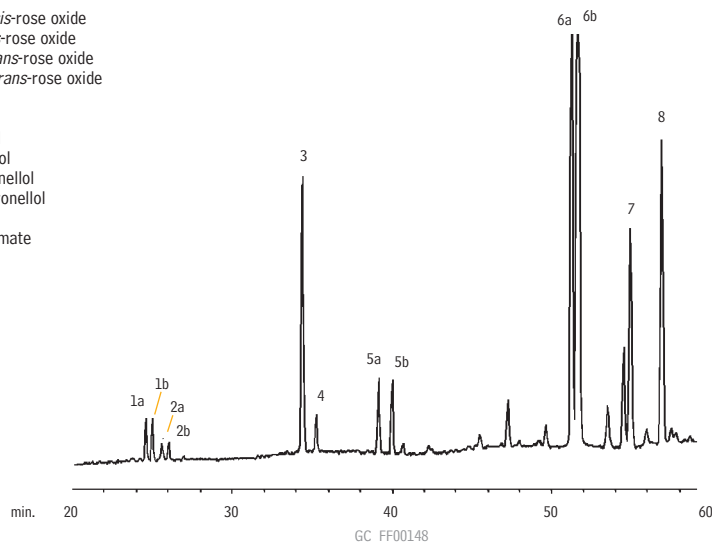
Linear velocity: 80cm/sec.

Det.: FID @ 220°C

Geranium Oil (Commercial)

Rt®-βDEXsa

- 1a. (+)-(2R,4S)-*cis*-rose oxide
- 1b. (-)-(2S,4R)-*cis*-rose oxide
- 2a. (-)-(2R,4R)-*trans*-rose oxide
- 2b. (+)-(2S,4S)-*trans*-rose oxide
3. isomenthone
4. menthone
- 5a. (-)-(R)-linalool
- 5b. (+)-(S)-linalool
- 6a. (-)-(S)-β-citronellol
- 6b. (+)-(R)-β-citronellol
7. geraniol
8. citronellyl formate



Column: Rt®-βDEXsa, 30m, 0.25mm ID, 0.25μm
(cat.# 13109)

Oven temp.: 60°C to 110°C @ 1°C/min. (hold 30 min.)

Carrier gas: hydrogen

Linear velocity: 40cm/sec. set @ 60°C

Det.: FID @ 220°C