SEDEX Low Temperature Evaporative Light Scattering Detector

SAMPLE: POLYOXYETHYLENE ALCOHOLS

HPLC

The lower temperature used in the SEDEX detector provides a significant advantage as it can detect compounds at a lower temperature. This application shows that many compounds which are readily observed at 35°C are not observable at 65°C (due to thermal instability, thus the analysis can only be performed via the SEDEX detector).

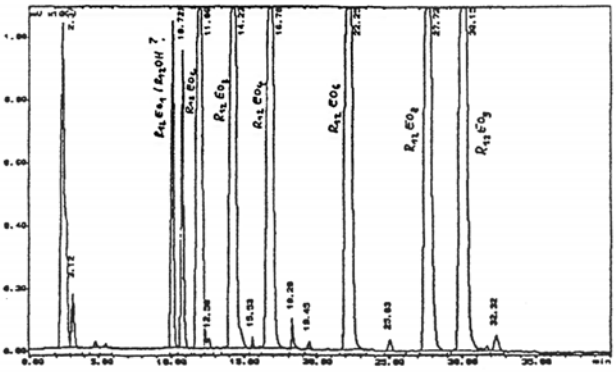
Analysis A Temperature = 30° C
Analysis B Temperature = 65° C

Analysis A can only be performed via the SEDEX Detector

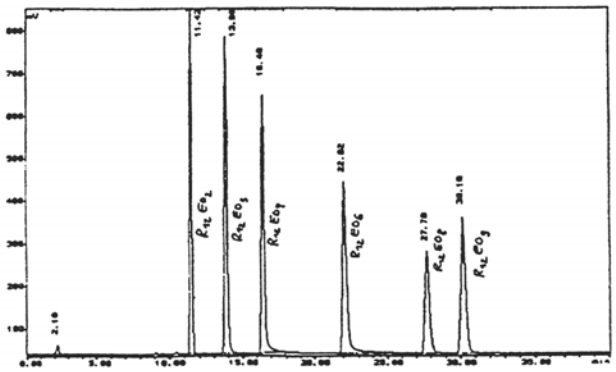
Peaks

$R_{12}OH$	10.5 mg/ml
$R_{12}(OCH_2CH_2)OH$	10.2 mg/ml
$R_{12}(OCH_2CH_2)_2OH$	11.8 mg/ml
$R_{12}(OCH_2CH_2)_3OH$	9.2 mg/ml
$R_{12}(OCH_2CH_2)_4OH$	10.2 mg/ml
$R_{12}(OCH_2CH_2)_6OH$	10.4 mg/ml
$R_{12}(OCH_2CH_2)_8OH$	9.5 mg/ml
$R_{12}(OCH_2CH_2)_9OH$	13.0 mg/ml

A 30°C



B 65°C



CONDITIONS	
Column	*Lichrospher NH_2 250 x 4.6 mm*
Eluent	*Hexane/iso-propyl alcohol/water*
Flow Rate	*1.0 ml/min*
Pressure	*2 bars*
Gas	*Nitrogen*

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Application #89