

CoreFocus
Report
No.359

GC

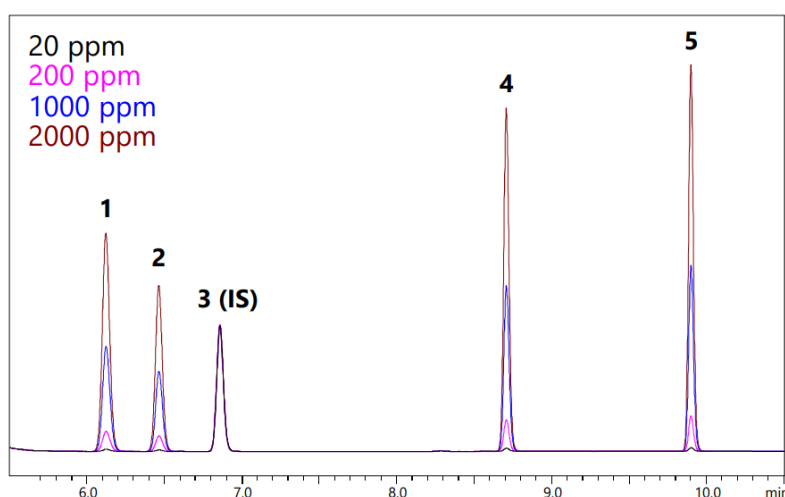
FID

AOC

SH Series

SH-PolarWax
Analysis of ketones, esters, and ethers
Using Automated Injection of Internal
Standards

Keywords: Ketones, Esters, Ethers, Internal standard method



1. THF
2. Ethyl acetate
3. MEK
4. MiBK
5. MBK

Model	: Nexis™ GC-2030 / AOC-30i
Injection Mode	: Sampler Navigator - sandwich-injection (IS 5 %, sample 0.5 µL)*
Syringe	: 10 µL syringe for AOC, P/N: 221-34618
Injection Volume	: 0.5 µL (IS) + 0.5 µL (Mixture)
Injection Temp.	: 200 °C
Injection Mode	: Split
Split Ratio	: 1:50
Carrier Gas	: He
Carrier Gas Control	: Linear Velocity (35 cm/s)
Column	: SH-PolarWax (60 m x 0.32 mm I.D. d.f. = 1.0µm), P/N: 227-36252-02
Column Temp.	: 60 °C (5 min) - 10 °C/min - 80 °C - 40 °C/min - 140 °C (5 min)
Detector	: Flame Ionization Detector (FID)
Detector Temp.	: 250 °C
Detector Gas	: H ₂ 32 mL/min, Air 200 mL/min
Makeup Gas	: N ₂ 24 mL/min

* The IS injection volume can be selected for 5 % or 10 % of the syringe volume.

Source : Application News 01-00005 ([JP](#), [ENG](#))

CoreFocus and Nexis are trademarks of Shimadzu Corporation or its affiliated companies in Japan and/or other countries.

Shimadzu Corporation
www.shimadzu.com/an/

For Research Use Only. Not for use in diagnostic procedures.

This publication may contain references to products that are not available in your country. Please contact us to check the availability of these products in your country.

The content of this publication shall not be reproduced, altered or sold for any commercial purpose without the written approval of Shimadzu.

Company names, products/service names and logos used in this publication are trademarks and trade names of Shimadzu Corporation, its subsidiaries or its affiliates, whether or not they are used with trademark symbol "TM" or "®". Third-party trademarks and trade names may be used in this publication to refer to either the entities or their products/services, whether or not they are used with trademark symbol "TM" or "®".

Shimadzu disclaims any proprietary interest in trademarks and trade names other than its own.

The information contained herein is provided to you "as is" without warranty of any kind including without limitation warranties as to its accuracy or completeness. Shimadzu does not assume any responsibility or liability for any damage, whether direct or indirect, relating to the use of this publication. This publication is based upon the information available to Shimadzu on or before the date of publication, and subject to change without notice.