



Alkanolamines

Analysis of AEEA

Application Note

Materials Testing & Research

Authors

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Introduction

AEEA (2-aminoethyl ethanolamine), is a very polar compound and is difficult to analyze as it is often irreversibly adsorbed on most columns. Agilent CP-Volamine provides high degree of inertness for symmetrical elution of this highly polar amine.



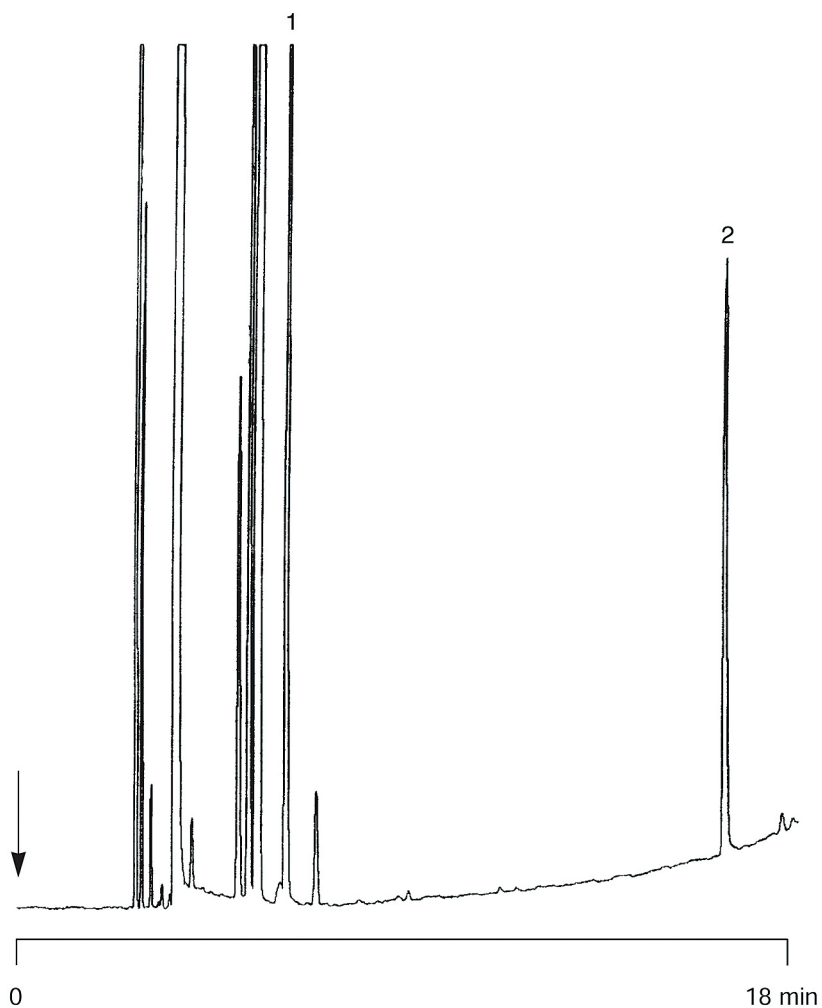
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Conditions

Technique : GC-capillary
Column : Agilent CP-Volamine, 0.32 mm x 60 m fused silica
WCOT (Part no. CP7448)
Temperature : 100 °C (0 min) → 200 °C, 5 °C/min;
Carrier Gas : H₂, 100 kPa (1 bar, 14 psi)
Injector : Split, 1:100,
T = 250 °C
Detector : FID
T = 250 °C
Sample Size : 0.2 µL
5 ng of AEEA on the column
Concentration Range : 0.1% level
Solvent Sample : hexane

Peak identification

1. MEA (mono ethanol amine)
2. AEEA (2-aminoethyl ethanolamine) or
N-(2-hydroxyethyl)ethylenediamine cas nr 111-41-1



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This information is subject to change without notice.

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Printed in the USA

31 October, 2011

First published prior to 11 May, 2010

A01584



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