



Agilent Technologies

Agilent J&W CP-Sil 5 CB for Formaldehyde

A collection of citations to advance your research

Table of contents

[Environmental](#)

Environmental

[Doped Polyaniline for the Detection of Formaldehyde](#)

Journal of Macromolecular Science A, **49**, 1-6
(2012)
K. M. E. Stewart *et al.*

Tags
CP-Sil 5 CB for Formaldehyde, environmental, air
analysis

Abstract

Polyaniline (PANI) and PANI doped with NiO and/or Al₂O₃ were tested for their sensing properties towards formaldehyde. It was found that at concentrations above 1 ppm, PANI doped with 5% NiO and 15% Al₂O₃ had both the sensitivity and selectivity needed, whereas, below 1 ppm, PANI doped with 15% NiO had the sensitivity, but not the selectivity required. By combining both sensing materials into one sensor, a highly sensitive and selective sensor could be made for the detection of formaldehyde at very low concentrations at the toxicity limit of 0.08 ppm. © Taylor and Francis.

www.agilent.com/chem

Agilent shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material. Information, descriptions, and specifications in this publication are subject to change without notice.

© Agilent Technologies, Inc., 2013

Printed in the UK
October 1, 2013

5991-3379EN

The Measure of Confidence



Agilent Technologies