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Gas Chromatography in the Low Concentration Determination of Nitrous Oxide and Volatile Anaesthetics

Ahmet UYANIK

Ondokuz Mayıs University, Faculty of Arts and Science,
Department of Chemistry, 55139 Kurupelit, Samsun - TURKEY

 [Keywords](#)
[Authors](#)

Abstract: A previously reported single-column gas chromatographic separation method was modified for dual-detection gas chromatography (TCD+FID) and evaluated for the low concentration analysis of volatile anaesthetics (halothane, isoflurane) and nitrous oxide. It was found that no serious problem occurs in the determination of volatile anaesthetics with FID (<10 ppm), but nitrous oxide introduces lack of sensitivity at lower concentrations with TCD (<40 ppm) in the described analysis method with a 0.25 ml sample loop. Keywords: Gas chromatography, halothane, isoflurane, nitrous oxide.



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