



Title	Determination of N-nitrosamines and N-nitrosatable substances in elastomers and fingerprint using UPLC-MS-MS		
Code	CHE01-WV406	Version 01	Start date 01-01-2018

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SCOPE

This method describes the identification and quantification of N-nitrosamines and N-nitrosatable substances mentioned in Table 1. The method is appropriate for the quantitative determination of the mentioned amines for the matrices elastomers and fingerprint.

Table 1.

Component
N-nitrosodiethanolamine (NDELA)
N-nitrosodimethylamine (NDMA)
N-nitrosodiethylamine (NDEA)
N-nitrosodipropylamine (NDPA)
N-nitrosodiisopropylamine (NDiPA)
N-nitrosodibutylamine (NDBA)
N-nitrosodiisobutylamine (NDiBA)
N-nitrosodiisononylamine (NDiNA)
N-nitrosomorpholine (NMOR)
N-nitrosopiperidine (NPIP)
N-nitrosodibenzylamine (NDBzA)
N-nitroso-N-methyl-N-phenylamine (NMPhA)
N-nitroso-N-ethyl-N-phenylamine (NEPhA)

ABSTRACT

Elastomers are prepared and migration is performed conform EN 71-12. The final solution is injected into a UPLC-MS-MS system using a UPLC CSH C18 (L=100mm; i.d.=2.1mm; df=1.7µm) column. Identification and quantification is performed using specific target and qualifier ions at ACPI+.

SAMENVATTING

Elastomeren en vingerverf worden opgewerkt volgens EN 71-12. De uiteindelijke oplossing wordt geïnjecteerd in een UPLC-MS-MS systeem met een UPLC CSH C18 (L=100mm; i.d.=2.1mm; df=1.7µm) kolom. Identificatie en kwantificering vindt plaats met behulp specifieke target en qualifier ionen in de ACPI+ mode.