Product Information

January 2025

DMF-DMA - N,N-Dimethylformamide Dimethyl Acetal

P/N: 370205

Available units: 20 x 1 mL, 1 x 10 mL, 5 x 10 mL (other packing units on request)

Physical data:
M = 119,17 g/mol
Kp = 106-107 °C
$d_{20/4}$ = 0.897 g/cm³

Application:
DMF-DMA is particularly suitable for the methylation of free fatty acids (carboxylic acids), primary amines, barbiturates and many amino acids.
Since the solvent properties of DMF-DMA are not sufficient, it is mixed with e.g. DMF, benzene, pyridine, THF, acetone or others.

Literature:
Thenot et al., *Anal. Letters* **5** (1972) 217-223, 519-529

Methylation:
Add 1 mL of a mixture of DMF-DMA/pyridine (1:1) to 1 - 50 mg of a free fatty acid in a reaction vessel. After brief heating (approx. 20-30 min) at 80 °C, the resulting reaction product can be injected directly into the GC.

GC Analysis:
The analysis of fatty acid methyl esters (FAME) can be carried out on non-polar silicone columns such as Methylsilicone OV-1.
For complex mixtures which also contain positionally isomeric unsaturated FAME, the use of medium-polar polyethylene glycol columns, such as FFAP, is recommended. If necessary, please request our GC application examples.

CS - Chromatographie Service GmbH, Am Parir 27, 52379 Langerwehe/Germany
Phone: +49 2423 / 40493-0 · E-Mail: info@cs-chromatographie.de