Product Information

January 2025

MBTFA - N-Methyl-bis-trifluoroacetamide

P/N: 370110

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

Physical data:
M = 223,08 g/mol
Kp = 123-124 °C
$d_{20/4}$ = 1.55 g/cm³

Application:
MBTFA is particularly suitable for the acylation of carbohydrates [1], alcohols, primary and secondary amines and thiols [2] under mild, neutral conditions. If no reaction occurs at room temperature,
is heated to up to approx. 120 °C.
It is usually used without solvents. Poorly soluble compounds can also be reacted with MBTFA in a mixture with suitable solvents such as acetonitrile, pyridine, DMF, or THF in a ratio of 4:1.

Literature:
J. Sullivan, L. Schewe, *J. Chromatogr. Sci.* **15** (1977) 196
M. Donike, *J. Chromatogr.* **78** (1973) 273

Acylation:
Approximately 2 mg of the sample to be acylated is mixed with 0.5 mL MBTFA. The reaction usually takes place at room temperature, otherwise the procedure is as described above.

GC Analysis:
The analysis of the resulting derivatives from the various substance classes is in most cases carried out on fused silica capillary columns with non-polar phases such as OV-1 and SE-30, both 100 % methylsiloxanes. Medium polarity phases such as OV-17, OV-1701 and OV-210 are only rarely used as an alternative or in addition.

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