



Silylation reagents - BSTFA, SILYL-991

MACHEREY-NAGEL

Silylation reagents - BSTFA, SILYL-991

For improved volatility, better thermal stability or low limit of detection in gas chromatography prerequisite: quantitative, rapid and reproducible formation of only on derivative halogen atoms introduced by derivatisation (e.g. trifluoroacetates) allow specific detection (ECD) with the advantage of high sensitivity elution order and fragmentation patterns in MS can be influenced by a specific derivatisation.

Reagents for **silylation - alkylation (methylation) - acylation** are available.

N,O-bis-trimethylsilyl-trifluoroacetamide

m.w. 257.4, Bp 40°C (12mm Hg), density $d_{20}^{40} = 0.961$

BSTFA: R = CF₃ powerful trimethylsilyl donor with approximately the same donor strength as the non-fluorinated analogue BSA

advantage of BSTFA over BSA: greater volatility of its reaction products (particularly useful for GC of some lower boiling TMS amino acids).

BSTFA is nonpolar (less polar than MSTFA), and can be mixed with acetonitrile for improved solubility. For silylating fatty acid amides, hindered hydroxyls and other compounds, which are difficult to silylate (like secondary alcohols and amines), we recommend BSTFA + 1% trimethylchlorosilane (TMCS), available under the designation SILYL-991.



Code	Description	Packaging
LLG04001486	Silylation reagents - BSTFA, SILYL-991, BSTFA, 1 ml	20 pz.
LLG04001511	Silylation reagents - BSTFA, SILYL-991, SILYL-991 (BSTFA - TMCS (99:1), 1 ml	20 pz.
LLG04001487	Silylation reagents - BSTFA, SILYL-991, BSTFA, 10 ml	5 pz.
LLG06803320	Silylation reagents - BSTFA, SILYL-991, BSTFA, 10 ml	1 pz.
LLG04001509	Silylation reagents - BSTFA, SILYL-991, SILYL-991 (BSTFA - TMCS (99:1), 100 ml	
LLG04001510	Silylation reagents - BSTFA, SILYL-991, SILYL-991 (BSTFA - TMCS (99:1), 50 ml	1 pz.



CARLO ERBA Reagents S.A.S.
 Chaussée du Vexin – 27106 Val
 de Reuil cedex
 N° TVA: FR 63391048824
 Tél : +33 (0)2 32 09 20 00
www.carloerbareagents.com



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