



Version
Molecular weight
Molecular Formula
CAS No
Linear Formula
Flash Point (°C)

04
353.43
C21 H23 N O4
616867-28-8

Certificate of Analysis

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Catalog Number	44114	Quality Test / Release Date	09/03/2023
Lot Number	337042	Suggested retest date	09/03/2028
Description	(R)-N-FMOC-alpha-Methylvaline, 98%, 98% ee		
Country of Origin	JAPAN		
Declaration of Origin	synthetic		

BSE/TSE	
Chemical	

Result name	Specifications	Test Value
Appearance (Color)	White to light yellow	White
Appearance (Form)	Powder	Crystalline powder
Infrared spectrum	Authentic	Authentic
HPLC	$\geq 97.5\%$	97.5 %
Residual solvents	$\leq 10\%$ MTBE	$\leq 10\%$ MTBE
Specific optical rotation	-7.5° to -9.5° (20°C, 589 nm) (c=1 in CHCl ₃)	-8.6° (20°C, 589 nm) (c=1 in CHCl ₃)
Enantiomeric excess	$\geq 98.0\%$	98.6 %
NMR (1H-NMR)		Consistent with structure

C. Wygaerts, QA Manager

Issued: 09-04-2023

Acros Organics BV
ENA23, zone1, nr 1350, Janssen Pharmaceuticaaan 3a, B-2440 Geel, Belgium
Tel +32 14/57.52.11 - Fax+32 14/59.34.34 Internet: <https://www.thermofisher.com>
1 Reagent Lane, Fair Lawn, NJ 07410, USA Fax 201-796-1329