



Version	00
Molecular weight	378.88
Quality Test / Release Date	12/03/2018
Molecular Formula	C ₁₄ H ₂₂ N ₄ O ₄ S · H Cl
CAS No	1784-03-8
Linear Formula	H ₂ N C(=NH) NH(CH ₂) ₃ CH(NHSO ₂ C ₆ H ₄ CH ₃) CO ₂ CH ₃
Flash Point (°C)	

Certificate of Analysis

This is to certify that units of the above mentioned lot number were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Acros Organics expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Unless otherwise stated, these products are not intended for dialysis, parenteral, or injectable use without further processing. The following are the actual analytical results obtained:

Catalog Number	13920	Quality Test / Release Date 12/03/2018
Lot Number	A0403175	
Description	Nalpha-4-Tosyl-L-arginine methyl ester hydrochloride, 98+%	
Country of Origin	CHINA	
Declaration of Origin		

BSE/TSE comment	
-----------------	--

Chemical Comment	
------------------	--

Result name	Units	Specifications	Test Value
Appearance (Color)		White	White
Appearance (Form)		Crystalline powder	Crystalline powder
Infrared spectrum		Conforms	Conforms
Melting point		146°C to 149°C	147.3°C
Titration with NaOH		98.0 to 102.0 %	99.1 %



A handwritten signature in black ink, appearing to read "L. Van den Broek".

L. Van den Broek, QA Manager

Issued: 12-03-2018

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