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Molecular weight	208.14
Quality Test / Release Date	03/13/2020
Molecular Formula	C7 H7 F3 N2 O2
CAS No	155377-19-8
Linear Formula	
Flash Point (°C)	

Certificate of Analysis

This is to certify that units of the lot number below 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. Products are for research use or further manufacturing. Not for direct administration to human or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	45228	Quality Test / Release Date 03/13/2020
Lot Number	344291	
Description	Ethyl 3-(trifluoromethyl)pyrazole-4-carboxylate, 97%	
Country of Origin	UNITED KINGDOM	
Declaration of Origin	synthetic	

BSE/TSE comment	
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Chemical Comment	
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Result name	Units	Specifications	Test Value
Appearance (Color)		Off-white to yellow to tan	Yellow
Appearance (Form)		Powder or solid	Crystalline powder
Infrared spectrum		Conforms	Conforms
Melting point		139°C to 145°C	143°C to 144.7°C
HPLC		>=96.0 %	99.2 %
NMR (1H-NMR)			Consistent with structure



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

L. Van den Broek, QA Manager

Issued: 03-16-2020

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