



Unilong Industry Co., Ltd

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Product Name:	D-PANTHENOL	Batch No.	JL20190801
Cas	81-13-0	MF Date	Aug. 21, 2019
Packing	200kg	Analysis Date	Aug. 21, 2019
Quantity	1MT	Expiry Date	Aug. 20, 2022
Item	Standard		
Molar mass	205.254 g • mol ⁻¹		
Chiral rotation ([α] _D)	+29° to +30°		
Melting point	66 to 69 ° C (151 to 156 ° F; 339 to 342 K)		
Boiling point	118 to 120 ° C (244 to 248 ° F; 391 to 393 K) at 2.7 Pa		
Density	1.2 g • mL ⁻¹ (at 20 ° C)		
Storage conditions	2-8° C		
PH	pH (100g/l, 25°C) : 8.5~10.5		

CERTIFICATE OF ANALYSIS

Analyst: Wen Qian

Quality Assurance Officer: Zhan Peng