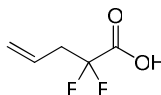




PharmaSci Shanghai Co., Ltd.

Unit 1-513, No.88, Cailun Road, Zhangjiang Hi-Tech Park, Shanghai, China. 201203
www.pharmasci.com sales@pharmasci.com T:+86 21 58952731 F: +86 21 58952731

CERTIFICATE OF ANALYSIS

Product Name: 2,2-Difluoro-4-pentenoic acid		CAS No.: 55039-89-9	
Quantity: 500.0 g		Batch No.: OTH014_100325	
Molecular Formula: C ₅ H ₆ F ₂ O ₂		Manufacturing Date: Mar 25, 2010	
Molecular Weight: 136.10		Expiry Date: Mar, 2012	
Structure			
Item		Specification	Result
Description		Colourless liquid	Colourless liquid
Identification (NMR)		Conform to the structure	Comply
Boiling point		69-71°C/35 Torr	73°C/35 Torr
Assay (GC)		≥ 98.0%	98.2%
Conclusion: Complies with requirements of enterprise standard.			