

# Certificate of Analysis

**Product:** Isovaleric acid(IVA)  
**Synonym:** 3-Methyl Butanoic Acid; 3-Methyl butyric acid  
**Grade:** FCC V  
**Order No.:** 170834

生产批次:	数量:	
Batch No.:	Quantity:	
生产日期:	保质期:	
MFG. Date:	Shelf life:	

Item	Specification	Result
Appearance	Colorless to pale yellow liquid	Pass test
Odor	Disagreeable, rancid, cheese	Pass test
Content(GC)	≥99%	99.65%
Refractive Index(at 20°C)	1.401-1.405	1.4026
Specific gravity(at 25°C/25°C)	0.923-0.928	0.9235
Conclusion	All items conforms with Food grade: FCC V	

BELEADER INDUSTRIAL CO. LIMITED

For and on behalf of  
**BELEADER INDUSTRIAL CO., LIMITED**  
 百利德實業有限公司  
 Issued Date: 12<sup>th</sup> Aug., 2013  
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*Authorized Signature(s)*