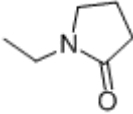


HANGZHOU OCEAN CHEMICAL CO., LTD

Room12A04, Ocean Blue Fortune Center,318 Baishi Lane,Xiacheng District, Hangzhou,Zhejiang,China

Tel: +86-571-88025872 Fax: +86-571-88025871 Mobile: +86 13588138709

CERTIFICATE OF ANALYSIS

Product name	N-Ethyl Pyrrolidone
CAS NO	2687-91-4
Batch No	2017041201
Molecular formula	
Quantity	1KG Sample
Manufacture date	April 12 2017
Analysis date	April 12 2017
Quality Standard	Enterprise standard

Inspection	Standard	Test Results
Appearances	Colorless transparent liquid	Colorless transparent liquid
Purity (wt% ,GC)	≥99.80%	99.82%
Moisture (wt%, K.F)	≤0.05%	0.007%
Color (Hazen)	≤20	5
Density (D420)	0.990-0.999	0.997
Refractivity (ND 20)	1.465-1.467	1.4665
PH value(10% ,v/v)	7.0-10.0	7.48
Total Amines wt% (as monoethylamine)	≤0.01%	0.0011%
Conclusion	The result conforms to the enterprise standard as above	

Q.C.Director:

Analyst:

Collator:

