HANGZHOU THINK CHEMICAL CO., LTD. ADD: ROOM 0103/7F RUIQI MANSION,425#MOGANSHAN ROAD, HANGZHOU,310011 CHINA

CERTIFICATE OF ANALYSIS

Product: 5-methylpyrazine-2-carboxylic acid

Batch No.: 130107

Mfg.Date: Jan.10th 2012 Exp.Date: Jan.9th 2013 Quantity: 50.0grams

Tests	Specifications	Results
Appearance	almost white or little yellow powder	light yellow powder
Melting point	163-167℃	165.0℃
Water content	0.5%max	0.23%
Chlorine ion	0.5%max.	Undetected
Heavy metals	10ppm max.	Undetected
Assay(HPLC)	98.0%min.	99.53%
Residue on igni	tion 1.0%max.	0.24%

Conclusion: It conforms with the Enterprise' standard.

Prepared by: 王建阖 Reviewed by: 文字 Approved by: 夏泽 ④

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夏济图

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HANGZHOU THINK CHEMICAL CO., LTD.

ADD: ROOM 0103/7F RUIOI MANSION,425#MOGANSHAN ROAD ,HANGZHOU,310011 CHINA

CERTIFICATE OF ANALYSIS

Product: 5-methylpyrazine-2-carboxylic acid

Batch No.: 130108

Mfg.Date: Jan.11th 2012 Exp.Date: Jan.10th 2013 Quantity: 50.0grams

Tests	Specifications	Results
Appearance	almost white or little yellow powder	light yellow powder
NA altinar maint	402.467%	105 0°C

Melting point $163-167^{\circ}$ 165.0°

Water content 0.5%max 0.21%

Chlorine ion 0.5%max. Undetected

Heavy metals 10ppm max. Undetected

Assay(HPLC) 98.0%min. 99.52%

Residue on ignition 1.0%max. 0.27%

Conclusion: It conforms with the Enterprise' standard.

杭州思诺科化工贸易有限公司 HANGZHOU THINK CHEMICAL CO.,LTD.