

Lot: 0031213

CHENG FONG CHEMICAL CO., LTD.

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CERTIFICATE OF ANALYSIS

Product : PHENYLPROPANOLAMINE HYDROCHLORIDE EP7		
Lot No : 31007	Quantity : 50 kg x 6	
Manu. Date : Nov. 15, 2013	Retest Date : Nov. 15, 2013	Date of Analysis : Nov. 22, 2013

ITEMS	SPECIFICATION	RESULTS
Characters	A white or almost white crystalline powder, freely soluble in water and in alcohol, practically insoluble in methylene chloride.	Conforms
Identification		
A. Melting point	194°C ~197°C	195.6 °C
B. IR	Accord with the standard spectrum	Accord
C. Test of chlorides	Meets the requirements	Conforms
Appearance of solution	5.0 % w/v solution must be clear and colourless	Clear, colourless
Acidity or alkalinity	10 ml of 5.0% w/v solution add 0.1 ml of methyl red solution R and 0.2 ml of 0.01 M sodium hydroxide. The solution is yellow. Add 0.4 ml if 0.01 M hydrochloric acid. The solution is red.	Conforms
Related substances (TLC)	NMT. 1.0 %	Conforms
Phenylpropanonamine	NMT. 0.10 (at 283 nm)	0.010
Heavy metals	NMT. 20 ppm	<20 ppm
Loss on drying	NMT. 0.5 %	0.02 %
Sulphated ash	NMT. 0.1 %	0.03 %
Assay	99.0 ~ 101.5 %	99.99 %
Residual solvent	Methanol : NMT 1000 ppm	21.7 ppm
Limit of Nickel	NMT 10 ppm	< Q(0.1 ppm)
PLANT MANAGER	DIRECTOR Q.C.	ANALYST
T. H. Chang	Simon Wang	Liu Fang Yu

Q.A. Approval : Shun-Hua Lin

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