

CHENG FONG CHEMICAL CO., LTD.

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New Taipei City 220, Taiwan (R.O.C.)

Factory : No.19, Gong 4th Rd., Dayuan Township,
Taoyuan County 337, Taiwan (R.O.C.)

CERTIFICATE OF ANALYSIS

Product : PHENYLPROPANOLAMINE HYDROCHLORIDE EP7		
Lot No : 40703	Quantity : 25kg x 20	
Manu. Date : Jul. 16, 2014	Retest Date : Jun. 10, 2019	Date of Analysis : Jul. 24, 2014

ITEMS	SPECIFICATION	RESULTS
Characters	A white or almost white crystalline powder, freely soluble in water and in alcohol, practically insoluble in methylene chloride.	White crystalline powder
Identification		
A. Melting point	194°C ~197°C	194.7 °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 of 0.01 M hydrochloric acid. The solution is red.	Conforms
Related substances (TLC)	NMT. 1.0 %	< 1.0%
Phenylpropanonamine	NMT. 0.10 (at 283 nm)	0.006
Heavy metals	NMT. 20 ppm	< 20 ppm
Loss on drying	NMT. 0.5 %	0.03 %
Sulphated ash	NMT. 0.1 %	0.02 %
Assay	99.0 ~ 101.5 %	100.50 %
Residual solvent	Methanol : NMT 1000 ppm	61.6 ppm
Limit of Nickel	NMT 10 ppm	< QL(0.1 ppm)
PLANT MANAGER	DIRECTOR Q.C.	ANALYST
<i>Arthur Wu</i>	<i>Chie Y. g</i>	<i>Liu Fang Yi</i>

Q.A. Approval : *Simon Cheng*