



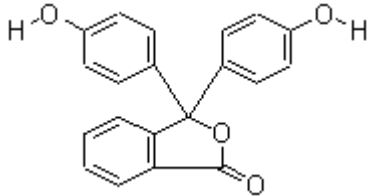
HANGZHOU DINGYAN CHEM CO.,LTD

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CERTIFICATE OF ANALYSIS

NO: DYC051702071

Product name	Phenolphthalein
CAS Number	77-09-8
Molecule Structure	
Molecule Formula	C ₂₀ H ₁₄ O ₄
Batch number	20170202
Manufacture date	2017-02-06
Report date	2017-03-10
Expiry date	2020-02-05

Items	Standard	Result
Appearance	White powder	White powder
Identification	Positive	Positive
Color of solution	$A \leq 0.150$	Pass
Acidity or alkalinity	Pass	Pass
Melting temperature	$\geq 260^{\circ}\text{C}$	261-262 °C
Heavy metals	$\leq 10\text{ppm}$	$< 10\text{ppm}$
Arsenic	$\leq 8\text{ppm}$	$< 8\text{ppm}$
Chlorides	$\leq 100\text{ppm}$	$< 100\text{ppm}$
Sulphates	$\leq 200\text{ppm}$	$< 200\text{ppm}$
Loss on drying	$\leq 0.5\%$	0.09%
Sulphated ash (residue on ignition)	$\leq 0.1\%$	0.04%
Limit of fluoran	Pass	Pass
Related substances	$\leq 0.5\%$	$< 0.5\%$
Chromatographic impurities	$\leq 1.0\%$	$< 1.0\%$
Organic volatile impurities	Pass	Pass
Assay	98.0%-101.0%	99.3%
Conclusion	Conforms to standard of BP2013/USP23	

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QUALITY CONTROL: *Hangzhou Dingyan Chem Co.,Ltd.*
Quality Control *Lucy Tang*
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