



CERTIFICATE OF ANALYSIS

REPORT NO. Quinoline-2014-0573

PRODUCT		CUSTOMER	
Trade Name	Quinoline	Shipped To	
Lot No		Destination	
Date Shipped	2014-06-30		
Weight	16 (M/T)		

ANALYSIS DATA

TEST ITEM	UNIT	SPECIFICATION	TEST METHOD	Lot No		
				QN512V7214	IQ516V7214	QN519V7214
				5.6	6.4	4.0
Appearance			Visual Method	Liquid	Liquid	Liquid
Sp.Gravity(60/60°F)			ASTM D 3505	1.097	1.097	1.097
Quinoline	%	Min. 98.5	GC	98.56	98.76	98.79
Isoquinoline	%		GC	1.09	1.18	1.12
Water	%	Max. 0.2	ASTM D 4928	0.01	0.01	0.01

I HEREBY CERTIFY THAT THE ANALYSIS DATA ABOVE IS TRUE AND CORRECT.

Certified by M. K. Kim MK Kim 2014/06/30 08:30:47
 Laboratory Supervisor