

# KUMHO P&B CHEMICALS

## CERTIFICATE OF ANALYSIS

CUSTOMER :  
COMMODITY : DIBK  
CERTIFICATE No. : D16120918  
QUANTITY :

	LOT No.		D16L08A1	
	QUANTITY(M/T)			
TEST ITEM	UNIT	SPEC.	RESULTS	TEST METHOD
Appearance		CLEAR	CLEAR	Visual
Color	APHA	Max 30	5	ASTM D1209
Sp.Gr. at 20/20℃		0.804 ~ 0.812	0.810	ASTM D4052
Water	wt. %	Max 0.2	0.01	ASTM D1364
Distillation Test			—	
IBP	℃	Min 163	165.8	ASTM D1078
DP	℃	Max 176	171.4	ASTM D1078
DIBK Purity	wt. %	Min 95.0	97.80	ASTM D3329
DIBK-1	wt. %		68.47	
DIBK-2	wt. %		29.33	
Acidity	wt. %	Max 0.002	0.001	ASTM D1613

I CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE AND CORRECT.

DATE : Dec.09.2016

SIGNATURE :



H. J. Kim

**Manager of Quality Management Team**

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