



VAN CAO CHEM

VAN CAO CO., LTD

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Product ISOPROPANOL (IPA)
Batch / MFG Date 28/04/2021
Batch No 109-555
Inspection Ref 010000153 209

CERTIFICATE OF ANALYSIS

Specification Description	Unit	Method	Result	Min	Max
Appearance		VISUAL INSPECTION	Clear		
Acidity as acetic acid	%wt	ASTM D1613	0.001		0.001
Color, Pt-Co	None	ASTM D1209	5.00		5.00
Density @20C	kg/L	ASTM D4052	0.7852	0.7840	0.7870
Distillation, DP	°C	ASTM D1078	82.6		83.0
Distillation, IBP	°C	ASTM D1078	82.2	81.8	
Non-volatile matter	g/100mL	ASTM D1353	< 0.001		0.001
Purity	%wt	GC	99.93	99.80	
Water content	%wt	ASTM E1064	0.04		0.10

This certificate is generated from computerized system by authorized person, therefore authorized signature is not required.