



Certificate of Analysis

Shell Product IPA (Isopropyl Alcohol)
Shell Spec. No. S1111 / 1010
Customer Product IPA 1010 BULK KG
Cust PO/Indent 4500524084
Sales Order/Item 1002005058 / 10 **Package Type** Bulk
Delivery Number 8003488006 **Vehicle/Vessel** OS27SP
Despatch Date 28.MAY.2021
Inspection Lot 000002936252

Property	Units	Minimum	Maximum	Result	N	Method
Purity	%m/m	99,8		100,0 ✓		DIN 55685
Water	%m/m		0,1	0,0 ✓		ASTM D1364
Acidity as acetic acid	%m/m		0,001	0,000 ✓		ASTM D1613
Water Miscibility	Miscible			Pass		ASTM D1722
Nonvolatile Residue	g/100ml		0,001	< 0,001		ASTM D1353
Appearance	Clear & Free From Suspended Matter			Pass		ASTM D4176
Color, Pt-Co			5	< 5 ✓	4	ASTM D1209
Density @20C	g/ml	0,785	0,786	0,785	4	ASTM D4052
Distillation, IBP	°C	81,8		> 81,8 ✓	4	ASTM D1078
Distillation, DP	°C		82,8	< 82,8 ✓	4	ASTM D1078
Refractive Index @20C		1,376	1,378	1,377	4	ASTM D1218

(N)otes :4-Agreed Specification limits - no results: Statistical average value reported

S1111_1010 Product as produced complies with ASTM D770 and DIN 53245.

Shell Chemicals Europe B.V. certifies that these results are based upon sampling and testing procedures in place at the time of production.