



# Certificate of Analysis

**Ship-To:**

Magazyn Czasowego SkBadowania  
"MCS Daniel"  
Batorego Street 61  
37700 PRZEMYSL  
POLAND

Shell Product : IPA (Isopropyl Alcohol)  
Shell Spec. No. : S1111 / 1000  
Customer Product : IPA 1000 KG  
Cust PO/Indent : 8-2018  
Sales Order/Item : 1001811904 / 10 Package Type : Bulk  
Delivery Number : 8003083929 Vehicle/Vessel : BI2622XM  
Despatch Date : 20.AUG.2018  
Inspection Lot : 000002569393

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	0,001		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

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

Product as produced complies with ASTM D770, DIN 53245 and ACS 8th edition. Product meets guaranteed limits, but are not routinely tested.

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