

Certificate of compliance with the order

Product : ISO BUTANOL

Customer : Urmi Chemicals

Order number : 81070831

Customer reference : PT/10264

Analysis reference : 21OC0097

Type of container : CC

Transport container : CXTU110782/4

Packed on : 02/11/2021

The product is guaranteed in conformity with the specifications

Characteristics	Value of the last analysis	Units	Min	Max	Reference
Appearance	CFSM*				ASTM D4176
Colour	5	Pt/Co		10	NF EN ISO 6271
Water Content	0.008	% wt		0.100	ASTM E203
Acidity (as acetic acid)	0.0015	% wt		0.004	ASTM D1613
Carbonyls (as isobutanol)	0.016	% wt		0.050	INEOS Method
Purity	99.80	% wt	99.7		GC Method
n Butanol content	0.17	% wt		0.20	GC Method

The product also meets the following which whilst not determined on a routine basis is guaranteed by process control

Initial Boiling Point @ 2% min 107°C / Dry point @ 97% max 109°C

Relative density at 20°C min 0.8015 / max 0.8045

* CFSM : Clear and Free of Suspended Matter

Lavera 02/11/2021

Quality Control Laboratory Manager

Laurence Berthelot