

**Scharlab S.L.**

Gato Pérez, 33. Pol. Ind. Mas d'en Cisa

08181 Sentmenat

☎ +34937456400

✉ helpdesk@scharlab.com

CERTIFICATE OF ANALYSIS**AL0173_25496902/1**

Product 1-Butanol, for analysis, ExpertQ®, ACS, ISO, Reag. Ph Eur

Batch 25496902

AL0173

Quality release date 27/01/2025

Expiry date 01/2030

Analysis	Batch value	Specifications
Assay (G.C.)	99,90 %	≥ 99,5
Identity (IR-Spectrum)	passes test	passes test
Density (20°/4°)	0,8093 g/mL	0,809 - 0,810
Density (20°/20°)	0,8107 g/mL	0,810 - 0,812
Appearance	clear	clear
Colour (Hazen)	2	≤ 10
Boiling point	116 - 119 ° C	116 - 119
Acidity	0,00006 meq/g	≤ 0,0008
Aluminium (Al)	< 0,5 ppm	≤ 0,5
Barium (Ba)	< 0,1 ppm	≤ 0,1
Boron (B)	< 0,02 ppm	≤ 0,02
Cadmium (Cd)	< 0,05 ppm	≤ 0,05
Calcium (Ca)	< 0,5 ppm	≤ 0,5
Chromium (Cr)	< 0,02 ppm	≤ 0,02
Cobalt (Co)	< 0,02 ppm	≤ 0,02
Copper (Cu)	< 0,02 ppm	≤ 0,02
Iron (Fe)	< 0,1 ppm	≤ 0,1
Lead (Pb)	< 0,1 ppm	≤ 0,1
Magnesium (Mg)	< 0,1 ppm	≤ 0,1
Manganese (Mn)	< 0,02 ppm	≤ 0,02
Nickel (Ni)	< 0,02 ppm	≤ 0,02
Tin (Sn)	< 0,1 ppm	≤ 0,1
Zinc (Zn)	< 0,1 ppm	≤ 0,1
Aldehydes	passes test	passes test
Carbonyl compounds (as CO)	< 0,01 %	≤ 0,01
2-Butanol (G.C.)	< 0,05 %	≤ 0,05
Butyraldehyde (G.C.)	< 0,01 %	≤ 0,01
Dibutyl ether (G.C.)	< 0,01 %	≤ 0,1
Isobutanol (G.C.)	< 0,05 %	≤ 0,15
Substances darkened by H2SO4	passes test	passes test
Residue on evaporation	0,0003 %	≤ 0,001
Water (K.F.)	0,0061 %	≤ 0,1

For laboratory use only

Results marked with # are out of specifications.
This certificate does not exempt the user from checking the results upon receipt of the goods.
Any copy of our CoA may be obtained from our website at www.scharlab.com

Marta Avilés Palou
Laboratory Technician