

CERTIFICATE OF ANALYSIS

Standard product specification — applicable to all consignments of this product and grade supplied by Scapex Exports Pvt. Ltd.

Product Name	1,3-Butanediol, Reagentplus	C.A.S. Number	107-88-0
Product Category	Solvents & Glycols	Product Group	Glycols
Grade / Standard	≥99.0% Cosmetic	Physical Form	Clear colorless viscous liquid
Country of Origin	India	Document No.	SCX/COA/0F1C1B
Packing	Standard export packing — bags, drums, carboys, IBC or ISO tank as applicable	Storage	Cool, dry, well-ventilated place in tightly closed original packing

ANALYTICAL RESULTS

S. No.	Test Parameter	Specification	Result	Method
1	Description	Clear colorless viscous liquid	Complies	Visual
2	Identification	Conforms to the structure of the substance	Complies	FTIR / Chemical test
3	Assay	Not less than 99.0 % w/w	99.24	Gas Chromatography
4	Purity (by GC)	Not less than 99.5 % (area)	99.91	Gas Chromatography
5	Colour (APHA / Pt-Co)	Not more than 10	3	ASTM D1209
6	Water Content	Not more than 0.05 % w/w	0.0134	Karl Fischer titration
7	Acidity (as acetic acid)	Not more than 0.002 % w/w	0.0004	Titrimetry
8	Residue on Evaporation	Not more than 0.001 % w/w	0.0004	Gravimetry
9	Specific Gravity at 25 °C	As per specification	Conforms	Pycnometry / ASTM D4052
10	Refractive Index at 20 °C	As per specification	Conforms	Refractometry / ASTM D1218
11	Total Aerobic Microbial Count	Not more than 1000 cfu/g	105 cfu/g	IP / USP <61>
12	Total Yeast & Mould Count	Not more than 100 cfu/g	3 cfu/g	IP / USP <61>
13	Escherichia coli	Absent in 1 g	Absent	IP / USP <62>
14	Salmonella species	Absent in 10 g	Absent	IP / USP <62>

Remarks

Material supplied against this specification is analysed on every production lot and **conforms** to the limits stated above in all tested parameters. Results shown are the typical values obtained for this grade.

Retained samples are held against every export consignment. Store in tightly closed original packing, in a cool, dry, well-ventilated place away from incompatible materials and direct sunlight.

Checked and Approved by

Prem Panchal
Quality Assurance
Scapex Exports Pvt. Ltd.

This document sets out the standard specification for the product named above and applies to all consignments of this grade. It is not a lot-specific release document; a lot-specific certificate carrying the analysis of the material actually shipped is issued with each consignment. The information is given in good faith; it does not constitute a warranty of fitness for any particular purpose. Refer to the Safety Data Sheet before handling.