



DRAFT TANZANIA STANDARD

Methods of sampling and test for crude and refined glycerine
Part 13: Limit test for chloride

TANZANIA BUREAU OF STANDARDS

Foreword

This Draft Tanzania Standard was prepared under the direction of Cosmetics and Cremeries Technical Committee, which is under the supervision of Chemicals Divisional Standards Committee.

For the purpose of deciding whether a particular requirement of this Tanzania Standard is complied with, the final value, observed or calculated, expressing the result of a test or an analysis, shall be rounded off in accordance with TZS 4 (see clause 2).

This second edition cancels and replaces the first edition (TZS 1199-13:2015), which has been technically revised.

Methods of sampling and test for crude and refined glycerine

Part 13: Limit test for chloride

1 Scope

This Draft Tanzania Standard describes a turbidimetric limit test for chloride in crude and refined glycerine..

2 Normative references

The following referenced documents are indispensable for the application of this Tanzania Standard:

TZS 59:2010/ISO 3696, *Water for analytical laboratory use — Specification and test methods*

3 Principle

Treatment of a diluted test portion with nitric acid and silver nitrate solution and examination for any turbidity.

4 Reagents

The reagents shall be of a recognized analytical grade. Distilled water complying with the requirements of TZS 59/ISO 3696 (see clause 2) or water of at least equal purity shall be used.

4.1 Nitric acid, 1.6 M reagent solution. Dilute concentrated nitric acid, 70 % (m/m).

4.2 Silver nitrate, 0.01 M standard volumetric solution.

5 Sampling

Prepare the laboratory sample as described in TZS 1199-2

6 Procedure

Dilute 10 mL of the sample to 50 mL with distilled water. Place 5 mL of this solution in a boiling tube, add 0.25 mL of the nitric acid solution (see 4.1), 5.0 mL of the silver nitrate solution (see 4.2) and mix. Observe if any turbidity is produced.

NOTE – It is advisable that all tests should be carried out in duplicate.

Prepare a standard solution containing a known amount of chloride.

Compare the turbidity of the test solution versus standard after a fixed time (usually ~5 minutes).

7 Acceptance Criteria

The turbidity in the test solution must not be greater than that of the standard.
If it is less than or equal, the sample passes the test.

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7 Test report

7.1 Report whether any turbidity is produced.

7.2 The test report shall include the following particulars:

- a) a reference to this Tanzania Standard;
- b) the result and the method of expression;
- c) any unusual feature noticed during the test;
- d) any operation not included in this Tanzania Standard or regarded as optional.

Bibliography

TZS 1199-13:2015 *Methods of sampling and test for crude and refined glycerine Part 13: Limit test for chloride*