**DRAFT TANZANIA STANDARD**

**Determination of urea content in urea-based fertilizers by high performance liquid chromatography (HPLC)**

**TANZANIA BUREAU OF STANDARDS**

**NATIONAL FOREWORD**

The Tanzania Bureau of Standards is the statutory national standards body for Tanzania, formally established by the Act.No.3 of 1975, which was amended and repealed by Act.No.2 of 2009.

The Fertilizer and Soil Conditioner Technical Committee, under the supervision of the Agriculture and Food Standards Divisional Committee (AFDC 10), has prepared this Tanzania Standard.

It is identical ISO 19746:2017 Determination of urea content in urea-based fertilizers by high performance liquid chromatography (HPLC)**,** published by International Organization for Standardization (ISO).

**TERMINOLOGY AND CONVENTIONS**

The text of the International standard is hereby being recommended for approval without deviation for publication as Tanzania standard.

Some terminologies and certain conventions are not identical with those used in Tanzania standards; attention is drawn especially to the following: -

1) The comma has been used as a decimal marker for metric dimensions. In Tanzania Standards, it is current practice to use “full point” on the baseline as the decimal marker.

2) Where the words “International Standard(s)” appear, referring to this standard they should read “Tanzania Standard(s)”.

**SCOPE**

This document specifies the test procedure for determining the urea content in urea-based fertilizers, including urea, urea aldehydes [methylene urea fertilizers, isobutylene diurea (IBDU), crotonylidene diurea (CDU)], urea triazone fertilizers, urea ammonium nitrate (UAN), sulfur- and polymer-coated urea (SCU and PCU), as well as compound fertilizers containing urea. The method is based on High Performance Liquid Chromatography (HPLC).