
**Fertilizers, soil conditioners and
beneficial substances — Vocabulary**

Engrais, amendements et substances bénéfiques — Vocabulaire



This document is a preview generated by ELS



COPYRIGHT PROTECTED DOCUMENT

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
1 Scope	1
2 Normative References	1
3 Terms and definitions	1
3.1 General terms.....	1
3.2 Terms relating to products.....	9
3.2.1 Nitrogen product.....	9
3.2.2 phosphorus product.....	10
3.2.3 Potash product.....	11
3.2.4 NP product.....	11
3.2.5 NK product.....	11
3.2.6 PK product.....	11
3.2.7 NPK product.....	12
3.2.8 Miscellaneous products.....	12
3.3 Terms relating to physical properties.....	15
3.4 Terms relating to physico-chemical properties.....	17
3.5 Terms relating to safety.....	19
3.6 Terms relating to sampling.....	20
Index	23

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 134, *Fertilizers, soil conditioners and beneficial substances*.

This third edition cancels and replaces the second edition (ISO 8157:2015) which has been technically revised.

The main changes are as follows:

- the scope has been modified in accordance with the name and scope of ISO/TC 134;
- terms related to beneficial substances like plant biostimulants have been added.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Fertilizers, soil conditioners and beneficial substances — Vocabulary

1 Scope

This document defines terms relating to fertilizers, soil improvers, growing media, inhibitors and plant bio-stimulants.

2 Normative References

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1 General terms

3.1.1

fertilizer

substance containing one or more recognized plant nutrient(s), designed for use or claimed to have value in promoting plant growth

3.1.2

plant nutrient

substance that is essential or beneficial for plant growth

3.1.3

fertilizer nutrient

plant nutrient applied in the course of fertilization

Note 1 to entry: Some countries or regions declare nutrients in their oxide forms (e.g. CaO) but also in their elementary forms.

3.1.3.1

primary nutrient element

elements nitrogen, phosphorus and potassium only

Note 1 to entry: A macronutrient is also used. These include the following plant food: nitrogen (N), available phosphate (P_2O_5) and soluble potash (K_2O).

3.1.3.2

secondary nutrient element

elements calcium, magnesium and sulfur

Note 1 to entry: Sodium (Na) and Silicon (Si) have been supported as beneficial for certain plants.