



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 1844.3-2022

Plastics - Symbols and abbreviated terms - Part 3: Plasticizers

Issued on: October 12, 2022

Implemented on: October 12, 2022

Issued by: SAMR; SAC

Table of Contents

Foreword...	3
Introduction...	6
1 Scope...	7
2 Normative references...	7
3 Terms and definitions...	7
4 General...	7
5 Abbreviated terms...	9
Annex A (normative) List of symbols for components in abbreviated terms...	16

Foreword

This document was drafted in accordance with the rules given in GB/T 1.1-2020

"Directives for standardization - Part 1.Rules for the structure and drafting of standardizing documents".

This document is Part 3 of GB/T 1844 "Plastics - Symbols and abbreviated terms". The following parts of GB/T 1844 have been issued.

- Part 1.Basic polymers and their special characteristics;
- Part 2.Fillers and reinforcing materials;
- Part 3.Plasticizers;
- Part 4.Tables of hardness values.

This document replaces GB/T 1844.3-2008 "Plastics - Symbols and abbreviated terms

- Part 3.Plasticizers". Compared with GB/T 1844.3-2008, in addition to the structural adjustments and editorial modifications, the main technical changes in this document are as follows.

- a) Change "Annex A provides the symbols for the various components of the abbreviated term" to " Annex A specifies the symbols for the various components of the abbreviated term" (see 4.4 of this Edition; 2.4 of Edition version);
- b) Add abbreviated terms ATBC, ATEC, ATEHC, DBTP, DINCH and DPHP (see

Table 1 of this Edition);

c) Add the abbreviated terms DPGDB and ODTM to CAS-RN (see Table 1 of this Edition);

d) Change CAS-RN of abbreviated terms DOZ, TCEF, and TOTM (see Table 1 of this Edition; Table 1 of Edition 2008);

e) Add DPCP as an abbreviated term for diphenyloctyl phosphate, DPOP for diphenyloctyl phosphate, ATBC for acetyl tributyl citrate, TCEP for trichloroethyl phosphate, TCP for tricresyl phosphate, ATEC for acetyl triethyl citrate, TOP for trioctyl phosphate, and TXP for trixylyl phosphate (see Table 1 of this Edition);

f) Change the abbreviated term of epoxidized soybean oil from ESO to ESBO (see Table 1 of this Edition; Table 1 of Edition 2008);

g) Change the IUPAC name of ODP. Add 119-07-3 as its CAS-RN (see Table 1 of this Edition; Table 1 of Edition 2008);

h) Change the IUPAC names of TBAC and TEAC (see Table 1 of this Edition; Table

1 of Edition 2008);

i) Change the symbol for soybeans from "S" to "SB" (see Annex A of this Edition; Annex A of Edition 2008);

j) Delete the symbol "PM" (see Annex A of Edition 2008);

k) Add "F" as the symbol for phosphate esters (see Annex A of this Edition).

The modification of this document uses ISO 1043-3:2016 "Plastics - Symbols and abbreviated terms - Part 3: Plasticizers".

The technical differences between this document and ISO 1043-3:2016 and their reasons are as follows.

a) In Clause 1, add the content of "applicable limits" to comply with the provisions of GB/T 1.1-2020;

b) Replace ISO 1043-1 (see Clause 3) with GB/T 1844.1, which modified ISO 1043-1, to adapt to the technical conditions in China;

c) Replace ISO 472 (see Clause 3) with GB/T 2035, which is equivalent to ISO 472,

to adapt to the technical conditions in China;

d) Add CAS-RN of BNP and PPA to Table 1 to adapt to the technical conditions in China.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority shall not be held responsible for identifying any or all such patent rights.

This document was proposed by China Petroleum and Chemical Industry Federation.

This document shall be under the jurisdiction of National Technical Committee on Plastics of Standardization Administration of China (SAC/TC 15).

The drafting organizations of this document. Jiangsu Kingfa Technology New Materials Co., Ltd., Zhonglan Chenguang Chemical Co., Ltd., Qingdao Dagang Customs of the People's Republic of China, Qingdao Customs Technology Center, Guyu (Fujian) Technology Co., Ltd., Liaocheng University, Jilin Provincial Product Quality Supervision and Inspection Institute.

Main drafters of this document. Li Jianjun, Yao Chen, Gao Jianguo, Li Zhou, Wang Erlong, Deng Daicong, Teng Mouyong, Li Shangyu, Yang Jun, Liu Zhanwei.

Versions of standard substituted by this document are.

- It was first issued in 1980 as GB/T 1844-1980 "Abbreviated terms and symbols of plastics and resins". The first revision was GB/T 1844.3-1995 in 1995. The second revision was in 2008;
- This is the third revision.

1 Scope

This document specifies the symbols and abbreviated terms related to plasticizers. This document only includes abbreviated terms that are already in common use.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 1844.1 and GB/T 2035 apply.

4 General

Some plasticizers contain "iso" in their names, but they may be composed of several isomers. Therefore, a single IUPAC name cannot describe the detailed chemical composition of these plasticizers.

5 Abbreviated terms

The abbreviated terms of plasticizers are shown in Table 1.

Annex A

(normative)

List of symbols for components in abbreviated terms

.....