

SLOVENSKI STANDARD SIST EN ISO 1043-3:2000

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Nadomešča:

SIST ISO 1043-3:1996

Polimerni materiali - Simboli in kratice - 3. del: Mehčala (ISO 1043-3:1996)

Plastics - Symbols and abbreviated terms - Part 3: Plasticizers (ISO 1043-3:1996)

Kunststoffe - Kennbuchstaben und Kurzzeichen - Teil 3: Weichmacher (ISO 1043-3:1996)

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Plastiques - Symboles et abréviations - Partie 3: Plastifiants (ISO 1043-3:1996)

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ICS:

01.075 Simboli za znake Character symbols

83.040.30 Pomožni materiali in aditivi Auxiliary materials and

za polimerne materiale additives for plastics

SIST EN ISO 1043-3:2000 en

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN ISO 1043-3

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ICS 83.040.30

English version

Plastics - Symbols and abbreviated terms - Part 3: Plasticizers (ISO 1043-3:1996)

Plastiques - Symboles et abréviations - Partie 3: Plastifiants (ISO 1043-3:1996)

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This European Standard was approved by CEN on 18 April 1999.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

The text of the International Standard from Technical Committee ISO/TC 61 "Plastics" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 1999, and conflicting national standards shall be withdrawn at the latest by November 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 1043-3:1996 has been approved by CEN as a European Standard without any modification ds.iteh.ai)

Carlanda Carlo

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INTERNATIONAL STANDARD

ISO 1043-3

> Second edition 1996-04-15

Plastics — Symbols and abbreviated terms —

Part 3:

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ISO 1043-3:1996(E)

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 1043-3 was prepared by Technical Committee VIEW ISO/TC 61, Plastics, subcommittee SC 1, Terminology.

This second edition cancels and replaces the first edition (ISO 1043-3:1988) and includes the following changes:

SIST EN ISO 1043-3:2000

The list of plasticizers has been updated and the Chemical Abstracts. Service Registry Number (CAS-RN) has been added where available.

ISO 1043 consists of the following parts, under the general title *Plastics* — *Symbols and abbreviations*:

- Part 1: Basic polymers and their special characteristics
- Part 2: Fillers and reinforcing materials
- Part 3: Plasticizers
- Part 4: Flame retardants

Annex A forms an integral part of this part of ISO 1043.

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ISO 1043-3:1996(E)

Plastics — Symbols and abbreviated terms —

Part 3:

Plasticizers

1 Scope

- **1.1** This part of ISO 1043 provides uniform symbols for components of terms relating to plasticizers to form abbreviated terms. It includes, in general, only those abbreviated terms that have come into established use.
- **1.2** The purpose of this part of ISO 1043 is to prevent the occurrence of more than one abbreviated term for a given plasticizer. The symbols are primarily intended to be a convenient shorthand for forming abbreviated terms for chemical names in publications and other written matter.

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2 Use of the symbols and abbreviated terms 43-3:2000

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- **2.1** The first appearance of an abbreviated term in a text shall be enclosed in parentheses and shall be preceded by the chemical name written in full.
- **2.2** Only capital letters shall be used for the symbols.
- **2.3** The list comprises the abbreviated term, the commonly used name or names, and the IUPAC ¹⁾ equivalent and the CAS-RN ²⁾ where these are available. In cases where IUPAC nomenclature or the CAS-RN are not available due to uncertainty or ambiguity, this is indicated in the text.

The commonly used chemical name or the IUPAC name given in this part of ISO 1043 shall be referred to when defining each abbreviated term.

NOTE — It should be recognized that, in use in the rubber and plastics industries, many plasticizers are "commercial" or "technical" grades and not necessarily pure forms of substances.

- **2.4** A list of symbols for individual components of abbreviated terms is given in annex A.
- **2.5** Mixtures of plasticizers are not considered in this part of ISO 1043.
- **2.6** Unless otherwise indicated, the alkyl groups are *n*-alkyl groups and phthalates are esters of *o*-phthalic acid.

¹⁾ International Union of Pure and Applied Chemistry.

²⁾ Chemical Abstracts Service Registry Number.

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- **2.7** No symbol is used in the abbreviated terms to indicate normal (*n*-) linear alcohols. For branched (iso) alcohols, the additional symbol I is used, with one exception: in view of worldwide usage of the symbol O for 2-ethylhexyl (for example, in DOA and DOP), this practice is observed in this part of ISO 1043 and the *n*-octyl group is designated NO (as in DNOP). Because of this dual usage, the application of the rule specified in 2.1 is most important.
- **2.8** The symbol I designates iso-branched groups (for example, DIOP). However, DTDP is sometimes used instead of DITDP because di-*n*-tridecyl phthalate is not used as a plasticizer; when DTDP is used, the application of the rule specified in 2.1 is most important.
- 2.9 For plasticizers based on di-esters of the same alcohol, the first symbol of the abbreviated term is D.
- **2.10** The letter P may be used in place of F for "phosphate" in abbreviated terms for plasticizers.
- **2.11** Several plasticizers having "iso" names indicating branched groups may consist of several isomers. For this reason, no single IUPAC name can describe the detailed chemical composition of each of these plasticizers.
- **2.12** Some plasticizers consisting of esters of more than one alcohol are known by a combined number and letter code, e.g. 711A is an alternative common name for heptyl nonyl undecyl adipate (HNUA). The first digit represents the number of carbon atoms in the shortest alkyl group and the second and third digits represent that of the longest alkyl group in the plasticizer; thus 7 denotes heptyl and 11 denotes undecyl. The letter at the end of the code is either A, which denotes adipate, or P, which denotes phthalate.

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3 Schedule of terms

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Abbreviated	Common name	SIST EN ISO IUPAG equ ivalent	CAS-RN		
term	https://standards.iteh				
ASE	alkylsulfonic acid ester 4a572bdc21fe/sist-earkanesulfonates				
	,	or alkyl alkanesulfonates	not known		
BAR	butyl o-acetylricinoleate	butyl (R)-12-acetoxyoleate	140-04-5		
BBP	benzyl butyl phthalate	same	85-68-7		
BCHP	butyl cyclohexyl phthalate	same	84-64-0		
BNP	butyl nonyl phthalate	same	not known		
BOA	benzyl octyl adipate	benzyl 2-ethylhexyl adipate	3089-55-2		
BOP	butyl octyl phthalate	butyl 2-ethylhexyl phthalate	85-69-8		
BST	butyl stearate	same	123-95-5		
DBA	dibutyl adipate	same	105-99-7		
DBEP	di-(2-butoxyethyl) phthalate	bis(2-butoxyethyl) phthalate	117-83-9		
DBF	dibutyl fumarate	same	105-75-9		
DBM	dibutyl maleate	same	105-76-0		
DBP	dibutyl phthalate	same	84-74-2		
DBS	dibutyl sebacate	same	109-43-3		
DBZ	dibutyl azelate	same	2917-73-9		
DCHP	dicyclohexyl phthalate	same	84-61-7		
DCP	dicapryl phthalate	bis(1-methylheptyl) phthalate	131-15-7		
DDP	didecyl phthalate	same	84-77-5		
DEGDB	diethylene glycol dibenzoate	oxydiethylene dibenzoate	120-55-8		
DEP	diethyl phthalate	same	84-66-2		
DHP	diheptyl phthalate	same	3648-21-3		
DHXP	dihexyl phthalate	same	84-75-3		
DIBA	diisobutyl adipate	same	141-04-8		
DIBM	diisobutyl maleate	same	14234-82-3		
DIBP	diisobutyl phthalate	same	84-69-5		
DIDA	diisodecyl adipate	see 2.11	27178-16-1		

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Abbreviated term	Common name	IUPAC equivalent	CAS-RN
DIDP DIHP	diisodecyl phthalate diisoheptyl phthalate	see 2.11 see 2.11	26761-40-0 41451-28-9
DIHXP	diisohexyl phthalate	same	71850-09-4
DINA	diisononyl adipate	see 2.11	33703-08-1
DINP	diisononyl phthalate	see 2.11	28553-12-0
DIOA	diisooctyl adipate	see 2.11	1330-86-5
DIOM	diisooctyl maleate	see 2.11	1330-76-3
DIOP	diisooctyl phthalate	see 2.11	27554-26-3
DIOS	diisooctyl sebacate	see 2.11	27214-90-0
DIOZ	diisooctyl azelate	see 2.11	26544-17-2
DIPP	diisopentyl phthalate	same	605-50-5
DMEP	di-(2-methyloxyethyl) phthalate	bis(2-methoxyethyl) phthalate	117-82-8
DMP	dimethyl phthalate	same	131-11-3
DMS	dimethyl sebacate	same	106-79-6
DNF	dinonyl fumarate	same	2787-63-5
DNM	dinonyl maleate	same	2787-64-6
DNOP	di-n-octyl phthalate	dioctyl phthalate	117-84-0
DNP DNS	dinonyl phthalate	same	14103-61-8
DOA	dinonyl sebacate dioctyl ³⁾ adipate	same bis(2-ethylhexyl) ³⁾ adipate	4121-16-8
DOIP	dioctyl isophthalate	bis(2-ethylhexyl) isophthalate	103-23-1 137-89-3
DOP	dioctyl phthalate	bis(2-ethylhexyl) phthalate	137-69-3
DOS	dioctyl sebacate	bis(2-ethylhexyl) sebacate	122-62-3
DOTP	dioctyl terephthalate TANDAR	bis(2-ethylhexyl) terephthalate	6422-86-2
DOZ	dioctyl azelate	bis(2-ethylhexyl) azelate	2064-80-4
DPCF	diphenyl cresyl phosphatendards.	diphenyl x-tolyl orthophosphate.	
		where x denotes o , m , p or mixture	26444-49-5
DPGDB	di-x-propylene glycol dibenzoate ISO 104	₃ not possible	not known
DPOF	diphenyl octyl phosphate/catalog/standards/	s:2-ethylhexyl diphenyl orthophosphate	
DPP	diphenyl phthalate 4a572bdc21fe/sist-en-ise	o-1049-3-2014 diphenyl orthophosphate same	1241-94-7 84-62-8
DTDP	diisotridecyl phthalate (see 2.8)	see 2.11	27253-26-5
DUP	diundecyl phthalate	same	3648-20-2
ELO	epoxidized linseed oil	not possible	8016-11-3
ESO	epoxidized soya bean oil	not possible	8013-07-8
GTA	glycerol triacetate	same	102-76-1
HNUA	heptyl nonyl undecyl adipate (= 711A)	not possible	not known
HNUP	heptyl nonyl undecyl phthalate (= 711P)	not possible	68515-42-4
HXODA	hexyl octyl decyl adipate (= 610A)	not possible	not known
HXODP	hexyl octyl decyl phthalate (= 610P)	not possible	68515-51-5
NUA	nonyl undecyl adipate (= 911A)	not possible	not known
NUP	nonyl undecyl phthalate (= 911P)	not possible	not known
ODA	octyl decyl adipate	decyl octyl adipate	110-29-2
ODP	octyl decyl phthalate	decyl octyl phthalate	68515-52-6
ODTM	n-octyl decyl trimellitate	decyl octyl hydrogen benzene-1,2,4-tricarboxylate	not known
PO	paraffin oil	not possible	8012-95-1
PPA	poly(propylene adipate)	same	not known
PPS	poly(propylene sebacate)	not possible	not known
SOA	sucrose octa-acetate	sucrose octaacetate	126-14-7
TBAC	tributyl o-acetylcitrate	same	77-90-7
TBEP	tri-(2-butoxyethyl) phosphate	tris(2-butoxyethyl) orthophosphate	78-51-3

³⁾ In this context "octyl" and "(2-ethylhexyl)" are synonymous; DEHA and DEHP are frequently used as the abbreviated terms.