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Essential oils — Nomenclature

Huiles essentielles — Nomenclature

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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 54, *Essential oils*.

This fourth edition cancels and replaces the third edition, ISO 4720:2009, which has been technically revised with additions, deletions and the replacement of the botanical names of some plants.

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.

Introduction

This document gives a list of the botanical names of plants used for the production of essential oils, in order to harmonize their nomenclature.

In addition to this document, ISO/TC 54, *Essential oils*, has established ISO/TR 21092^[87], in which different numbers (CAS-USA, EINECS, CAS-EINECS, Fema, EC and FDA numbers) are listed for the characterization of essential oils.

Characterization of essential oils by using a single number (e.g. CAS number) would not be complete and it could lead to ambiguity and misunderstandings.

That is the reason why, through ISO/TR 21092^[87], ISO/TC 54 intends to provide the users of essential oils with useful information for a complete characterization of essential oils included in this document.

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Essential oils — Nomenclature

1 Scope

This document gives a list of the botanical names of plants used for the production of essential oils, together with the common names of the essential oils.

An alphabetical index of common names of essential oils is included at the end of this document.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

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

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

4 Nomenclature for essential oils

A list of the botanical names of plants used for the production of essential oils, together with the common names of the essential oils, is given in [Table 1](#).

Table 1 — Nomenclature for essential oils

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
1	<i>Abelmoschus moschatus</i> Medik. syn. <i>Hibiscus abelmoschus</i> L.	Malvaceae	ambrette seed		seed
2	<i>Abies alba</i> Mill.	Pinaceae	silver fir		leaf (needle), terminal branchlet
3	<i>Abies balsamea</i> (L.) Mill.	Pinaceae	fir needle fir balsam, Canadian		leaf (needle), terminal branchlet
4	<i>Abies sibirica</i> Ledeb.	Pinaceae	fir needle, Siberian	ISO 10869[71]	leaf (needle), terminal branchlet
5	<i>Achillea millefolium</i> L.	Asteraceae	yarrow milfoil		aerial parts
6	<i>Acorus calamus</i> L.	Araceae	sweet flag calamus		rhizome
7	<i>Agathosma betulina</i> (P.J. Bergius) Pillans	Rutaceae	buchu		leaves
8	<i>Allium cepa</i> L.	Alliaceae	onion		bulb

Table 1 (continued)

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
9	<i>Allium sativum</i> L.	Alliaceae	garlic		bulb
10	<i>Aloysia citriodora</i> Palau syn. <i>Aloysia triphylla</i> (L'Hér.) Britton syn. <i>Lippia triphylla</i> (L'Hér.) Kuntze, syn. <i>Verbena triphylla</i> L'Hér. syn. <i>Lippia citriodora</i> (Palau) Kunth	Verbenaceae	lemon verbena		flowering top, leaf
11	<i>Amyris balsamifera</i> L.	Rutaceae	amyris	ISO 3525[33]	wood
12	<i>Anethum graveolens</i> L.	Apiaceae	dill seed		fruit
			dill weed		aerial parts
13	<i>Anethum sowa</i> Roxb. ex Fleming	Apiaceae	indian dill		fruit
14	<i>Angelica archangelica</i> L.	Apiaceae	angelica		fruit, rhizome and root
15	<i>Aniba rosaeodora</i> Ducke <i>Aniba parviflora</i> (Meissn.) Mez.	Lauraceae	rosewood, Brazilian type	ISO 3761[40]	wood
16	<i>Apium graveolens</i> L.	Apiaceae	celery seed	ISO 3760[39]	fruit
			celery herb		aerial parts
17	<i>Aquilaria malaccensis</i> Lam. syn. <i>Aquilaria agallocha</i> Roxb.	Thymelaeaceae	agarwood		wood
18	<i>Artemisia absinthium</i> L.	Asteraceae	wormwood herb		leaves, flowering tops
19	<i>Artemisia afra</i> Jacq. ex Willd.	Asteraceae	african wormwood		leaves, flowering tops
20	<i>Artemisia annua</i> L. syn. <i>Artemisia chamomilla</i> C. Winkl.	Asteraceae	annual wormwood sweet sagewort sweet Annie		flowering tops
21	<i>Artemisia dracunculus</i> L.	Asteraceae	tarragon	ISO 10115[69]	aerial parts
22	<i>Artemisia herba-alba</i> Asso.	Asteraceae	armoise		leaves, aerial parts
23	<i>Artemisia pallens</i> Wall. ex DC.	Asteraceae	davana		flowering tops
24	<i>Backhousia citriodora</i> F. Muell.	Myrtaceae	lemon myrtle		leaf, terminal branchlets
25	<i>Betula lenta</i> L.	Betulaceae	sweet birch		bark
26	<i>Betula pendula</i> Roth	Betulaceae	birch tar		wood exudate
27	<i>Boswellia sacra</i> Flueck. syn. <i>Boswellia carteri</i> Birdw.	Burseraceae	olibanum frankincense		wood exudate
28	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	yellow mustard		seed

Table 1 (continued)

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
29	<i>Brassica nigra</i> (L.) W.D.J. Koch	Brassicaceae	black mustard		seed
30	<i>Bulnesia sarmientoi</i> Lor- entz ex Griseb	Zygophyllaceae	guaiac wood		wood
31	<i>Bunium persicum</i> (Boiss.) B. Fedtsch.	Apiaceae	black caraway		seed, tuber
32.1	<i>Bursera fagaroides</i> (Kunth) Engl.	Burseraceae	linaloe		wood
32.2	<i>Bursera glabrifolia</i> (Kunth) Engl.				
33	<i>Bursera linanoe</i> (La Llave) Rzed., Calde- rón & Medina syn. <i>Bursera delpechiana</i> Poiss. ex Engl. syn. <i>Bursera aloexylon</i> (Schiede ex Schldtl.) Engl.	Burseraceae	linaloe fruit		berries
34	<i>Callitris columellaris</i> F. Muell. syn. <i>C. glaucophylla</i> J. Thomps. & L.A.S. Johnson syn. <i>C. intratropica</i> R.T.Baker & H.G.Sm.	Cupressaceae	cypress-pine		wood
35	<i>Cananga odorata</i> (Lam.) Hook. f. & Thomson forma <i>macrophylla</i>	Annonaceae	cananga	ISO 3523[31]	flower
36	<i>Cananga odorata</i> (Lam.) Hook. f. & Thomson forma <i>genuina</i>	Annonacea	ylang-ylang	ISO 3063[14]	flower
37	<i>Canarium luzonicum</i> (Blume) A. Gray	Burseraceae	elemi	ISO 10624[70]	wood exudate (natu- ral oleoresin)
38	<i>Carum carvi</i> L.	Apiaceae	caraway seed	ISO 8896[55]	fruit
39	<i>Cedrus atlantica</i> (Endl.) G. Manetti ex Carrière	Pinaceae	cedarwood Atlas		wood
40	<i>Cedrus deodara</i> (Roxb. ex D. Don) G. Don	Pinaceae	cedarwood Hima- laya		wood
41	<i>Chamaemelum nobile</i> (L.) All. syn. <i>Anthemis nobilis</i> L. syn. <i>Ormenis nobilis</i> (L.) J. Gay ex Coss. & Germ.	Asteraceae	chamomile English chamomile Roman chamomile		flowering tops
42	<i>Chrysopogon zizanioides</i> (L.) Roberty syn. <i>Vetiveria zizanioides</i> (L.) Nash	Poaceae	vetiver	ISO 4716[44]	root

Table 1 (continued)

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
43	<i>Cinnamomum camphora</i> (L.) J. Presl syn. <i>Laurus camphora</i> L.	Lauraceae	camphor laurel camphor tree		leaves, twig, terminal branchlet
44	<i>Cinnamomum cassia</i> (L.) J. Presl syn. <i>Cinnamomum aromaticum</i> Nees	Lauraceae	cassia, Chinese type	ISO 3216[22]	leaf, twig, terminal branchlet
45	<i>Cinnamomum micranthum</i> (Hayata) Hayata	Lauraceae	sassafras, China		wood
46	<i>Cinnamomum verum</i> J. Presl syn. <i>Cinnamomum zeylanicum</i> Blume	Lauraceae	cinnamon, Sri Lanka type	ISO 3524[32]	leaf, twig, terminal branchlet, stem bark
47	<i>Cistus ladanifer</i> L.	Cistaceae	rockrose labdanum		leaves, twig, terminal branchlet
48	<i>Citrus aurantiifolia</i> (Christm.) Swingle	Rutaceae	lime	ISO 3809[41] ISO 3519[29]	pericarp, fruit juice or crushed fruits
49	<i>Citrus aurantium</i> L. syn. <i>Citrus amara</i> Link syn. <i>Citrus bigaradia</i> Loisel syn. <i>Citrus vulgaris</i> Risso	Rutaceae	neroli	ISO 3517[27]	flower
			bitter orange	ISO 9844[67]	pericarp
			petitgrain bitter orange	ISO 8901[60]	leaf and twigs with sometimes little green fruits
50	<i>Citrus aurantium</i> L. var. <i>Paraguay</i> syn. <i>Citrus aurantium</i> var. <i>bigaradia</i> Hook f.	Rutaceae	petitgrain Paraguay	ISO 3064[15]	pericarp, leaf and twigs with sometimes little green fruits
51	<i>Citrus bergamia</i> Risso & Poit. syn. <i>Citrus aurantium</i> L. subsp. <i>bergamia</i> (Risso & Poit.) Wight & Arn. ex Engl.	Rutaceae	bergamot	ISO 3520[30]	pericarp
			bergamot petitgrain	ISO 8900[59]	leaf and twigs with sometimes little green fruits
52	<i>Citrus clementina</i> hort. ex Tanaka syn. <i>Citrus deliciosa</i> Ten. × <i>Citrus sinensis</i> (L.) Osbeck	Rutaceae	clementine mandarin		pericarp
53	<i>Citrus hystrix</i> DC. syn. <i>Citrus torosa</i> Blanco	Rutaceae	citrus hystrix		pericarp
54	<i>Citrus × latifolia</i> (Yu. Tanaka) Tanaka	Rutaceae	lime, Persian type	ISO 23954[92]	pericarp
55	<i>Citrus limon</i> (L.) Osbeck	Rutaceae	lemon	ISO 855[2]	pericarp
			lemon petitgrain	ISO 8899[58]	leaf and twigs with sometimes little green fruits
56	<i>Citrus × paradisi</i> Macfad.	Rutaceae	grapefruit	ISO 3053[11]	pericarp

Table 1 (continued)

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
57	<i>Citrus reticulata</i> Blanco syn. <i>Citrus nobilis</i> Andrews	Rutaceae	mandarin	ISO 3528[36]	pericarp
			mandarin petit-grain	ISO 8898[57]	leaf and twigs with sometimes little green fruits
58	<i>Citrus sinensis</i> (L.) Osbeck	Rutaceae	sweet orange	ISO 3140[16]	pericarp
59	<i>Cladanthus mixtus</i> (L.) Chevall. syn. <i>Chamaemelum mixtum</i> (L.) All.	Asteraceae	chamomile wild, Morocco		flowering herb
60	<i>Commiphora erythraea</i> (Ehrenb.) Engl.	Burseraceae	opopanax		wood exudate
61.1	<i>Commiphora myrrha</i> (Nees) Engl. syn. <i>C. molmol</i> (Engl.) Engl. ex Tschirch	Burseraceae	myrrh		wood exudate
61.2	<i>Commiphora gileadensis</i> (L.) C. Chr.				
61.3	<i>Commiphora habessinica</i> (O.Berg) Engl. syn. <i>C. abyssinica</i> (Engl.) Engl.				
62.1	<i>Copaifera guyanensis</i> Desf.	Fabaceae	copaiba balsam		wood exudate
62.2	<i>Copaifera martii</i> Hayne				
62.3	<i>Copaifera multijuga</i> Hayne				
62.4	<i>Copaifera reticulata</i> Ducke				
63	<i>Coriandrum sativum</i> L.	Apiaceae	coriander fruits	ISO 3516[26]	fruit
			coriander leaves		aerial parts
64	<i>Corymbia citriodora</i> (Hook.) K.D. Hill & L.A.S. Johnson syn. <i>Eucalyptus citriodora</i> Hook.	Myrtaceae	eucalyptus citriodora lemon-scented gum	ISO 3044[9]	leaf, terminal branchlets
65	<i>Croton eluteria</i> (L.) W. Wright syn. <i>Clutia eluteria</i> L.	Euphorbiaceae	cascarilla		bark
66	<i>Cryptocarya agathophylla</i> van der Werff syn. <i>Ravensara aromatica</i> Sonn.	Lauraceae	ravensara		leaves and twigs
67	<i>Cryptocarya massoy</i> (Oken) Kosterm.	Lauraceae	massoia bark		bark
68	<i>Cuminum cyminum</i> L.	Apiaceae	cumin seed	ISO 9301[62]	fruit

Table 1 (continued)

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
69	<i>Cupressus funebris</i> Endl. syn. <i>Chamaecyparis funebris</i> (Endl.) Franco	Cupressaceae	cedarwood, Chinese type	ISO 9843[66]	wood
70	<i>Cupressus sempervirens</i> L.	Cupressaceae	cypress	ISO 20809[86]	twig and leaf
71	<i>Curcuma aromatica</i> Salisb.	Zingiberaceae	wild turmeric		rhizome
72	<i>Cymbopogon citratus</i> (DC.) Stapf.	Poaceae	lemongrass, West Indian	ISO 3217[23]	whole aerial part (leaves)
73	<i>Cymbopogon flexuosus</i> (Nees ex Steud.) W. Watson	Poaceae	lemongrass	ISO 4718[45]	aerial part (leaves)
74	<i>Cymbopogon martini</i> (Roxb.) W. Watson var. <i>motia</i>	Poaceae	palmarosa	ISO 4727[49]	aerial part (leaves)
75	<i>Cymbopogon martini</i> (Roxb.) W. Watson var. <i>sofia</i>	Poaceae	gingergrass		aerial part (leaves)
76	<i>Cymbopogon nardus</i> (L.) W. Watson var. <i>lenabatu</i> Stapf.	Poaceae	citronella, Sri Lanka type	ISO 3849[43]	aerial part (leaves)
77	<i>Cymbopogon winterianus</i> Jowitt	Poaceae	citronella, Java type	ISO 3848[42]	aerial part (leaves)
78	<i>Cyperus scariosus</i> R. Br.	Cyperaceae	cypriol		rhizome
79	<i>Daucus carota</i> L.	Apiaceae	carrot seed		fruit
80.1	<i>Dipterocarpus alatus</i> Roxb. ex G. Don	Dipterocarpaceae	gurjun balsam		wood exudate
80.2	<i>Dipterocarpus turbinatus</i> C.F. Gaertn.				
81	<i>Dysphania ambrosioides</i> (L.) Mosyakin & Clements syn. <i>Chenopodium ambrosioides</i> L.	Chenopodiaceae	wormseed		flowering top, fruit
82	<i>Elettaria cardamomum</i> (L.) Maton	Zingiberaceae	cardamom	ISO 4733[54]	fruit
83	<i>Eremophila mitchellii</i> Benth.	Scrophulariaceae	false sandelwood		wood
84	<i>Eucalyptus globulus</i> Labill.	Myrtaceae	eucalyptus globulus	ISO 770[1]	leaf, terminal branchlets
85	<i>Eucalyptus olida</i> L.A.S. Johnson & K.D. Hill	Myrtaceae	Strawberry gum		leaf, terminal branchlets
86	<i>Eucalyptus polybractea</i> R. T. Baker	Myrtaceae	blue mallee		leaf, terminal branchlets
87	<i>Eucalyptus radiata</i> Sieber ex DC.	Myrtaceae	eucalyptus radiata		leaf, terminal branchlets
88	<i>Ferula assa-foetida</i> L.	Apiaceae	asafoetida		exudate
89	<i>Ferula gummosa</i> Boiss. syn. <i>Ferula galbaniflua</i> Boiss. et Buhse	Apiaceae	galbanum	ISO 14716[78]	root exudate

Table 1 (continued)

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
90	<i>Foeniculum vulgare</i> Mill. subsp. <i>vulgare</i> var. <i>dulce</i> (Mill.) Batt.	Apiaceae	sweet fennel		fruit
91	<i>Foeniculum vulgare</i> Mill. subsp. <i>vulgare</i> var. <i>vulgare</i>	Apiaceae	bitter fennel	ISO 17412[83]	fruit, aerial parts
92	<i>Gaultheria procumbens</i> L.	Ericaceae	wintergreen	ISO 21390[90]	leaf
93	<i>Geranium macrorrhizum</i> L.	Geraniaceae	zdravets		aerial parts
94	<i>Helichrysum italicum</i> (Roth) G. Don syn. <i>Helichrysum angustifolium</i> (Lam.) DC.	Asteraceae	everlasting		flowering tops
95	<i>Helichrysum stoechas</i> L. Moench	Asteraceae	everlasting, Spain		flowering tops
96	<i>Humulus lupulus</i> L.	Cannabaceae	hop		ripe cones of female flowers
97	<i>Hyssopus officinalis</i> L.	Lamiaceae	hyssop	ISO 9841[64]	flowering top and leaf
98	<i>Illicium verum</i> Hook. f.	Illiciaceae	star anise, Chinese type star anise	ISO 11016[72]	fruit
99	<i>Iris pallida</i> Lam.	Iridaceae	orris		rhizome
100	<i>Juniperus communis</i> L.	Cupressaceae	juniper berry	ISO 8897[56]	fruit, terminal branchlets
101	<i>Juniperus ashei</i> J. Buchholz	Cupressaceae	cedarwood, Texas	ISO 4725[48]	wood
102	<i>Juniperus oxycedrus</i> L.	Cupressaceae	cade		wood
103	<i>Juniperus procera</i> Hochst. ex Endl.	Cupressaceae	cedarwood, East Africa		wood
104	<i>Juniperus virginiana</i> L.	Cupressaceae	cedarwood, Virginia	ISO 4724[47]	wood
105	<i>Kunzea ambigua</i> (Sm.) Druce syn. <i>Leptospermum ambiguum</i> Sm.	Myrtaceae	tick bush		leaf, terminal branchlets
106	<i>Kunzea ericoides</i> (A. Rich.) Joy Thomps. syn. <i>Leptospermum ericoides</i> A. Rich.	Myrtaceae	kanuka		leaf, terminal branchlets
107	<i>Lantana camara</i> L.	Verbenaceae	lantana		flowering top and leaf
108	<i>Laurus nobilis</i> L.	Lauraceae	sweet bay		leaf
109	<i>Lavandula angustifolia</i> Mill.	Lamiaceae	lavender	ISO 3515[25]	flowering top
110	<i>Lavandula angustifolia</i> Mill. × <i>Lavandula latifolia</i> Medik.	Lamiaceae	lavandin abrialis	ISO 3054[12]	flowering top
			lavandin grosso	ISO 8902[61]	
			lavandin Sumian		
			lavandin super		

Table 1 (continued)

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
111	<i>Lavandula latifolia</i> Medik.	Lamiaceae	spike lavender	ISO 4719[46]	flowering top
112	<i>Lavandula stoechas</i> L.	Lamiaceae	lavender stoechas		flowering top
113	<i>Leptospermum petersonii</i> F. M. Bailey syn. <i>Leptospermum cit-ratum</i> Challinor, Cheel & Penfold	Myrtaceae	lemon scented tea tree		leaf, terminal branchlets
114	<i>Leptospermum scoparium</i> J. R. Forst et G. Forst	Myrtaceae	manuka		leaf, terminal branchlets
115	<i>Levisticum officinale</i> Koch	Apiaceae	lovage	ISO 11019[73]	root, leaves
116	<i>Liquidambar orientalis</i> Mill.	Hamamelidaceae	storax		exudate
117	<i>Litsea cubeba</i> (Lour.) Pers.	Lauraceae	Litsea cubeba	ISO 3214[20]	fruit
118	<i>Matricaria chamomilla</i> L. syn. <i>Chamomilla recutita</i> (L.) Rauschert	Asteraceae	German chamomile chamomile, blue	ISO 19332[84]	flowering tops
119	<i>Melaleuca alternifolia</i> (Maiden & Betche) Cheel syn. <i>Melaleuca linari-ifolia</i> Sm.	Myrtaceae	melaleuca, terpinen-4-ol type (tea tree)	ISO 4730[52]	leaf, terminal branchlets
120	<i>Melaleuca cajuputi</i> Powell syn. <i>Melaleuca minor</i> Sm.	Myrtaceae	cajeput		leaf, terminal branchlets
121	<i>Melaleuca ericifolia</i> Sm.	Myrtaceae	swamp paperbark		leaf, terminal branchlets
122.1	<i>Melaleuca quinquenervia</i> (Cav.) S.T. Blake	Myrtaceae	niaouli		leaves and terminal branchlets
122.2	<i>Melaleuca viridiflora</i> Sol. ex Gaertn.				
123	<i>Melissa officinalis</i> L.	Lamiaceae	lemon balm		aerial parts
124	<i>Mentha aquatica</i> L. var. <i>citrata</i> (Ehrh.) Fresen. syn. <i>Mentha citrata</i> Ehrh.	Lamiaceae	Mentha citrata		aerial parts, leaf
125	<i>Mentha canadensis</i> L. syn. <i>Mentha arvensis</i> var. <i>piperascens</i> Malinv. ex Holmes syn. <i>Mentha arvensis</i> var. <i>glabrata</i> (Benth.) Fernald	Lamiaceae	Mentha arvensis	ISO 9776[63]	flowering aerial parts, leaf
126	<i>Mentha spicata</i> L. syn. <i>Mentha viridis</i> L. var. <i>crispa</i> Benth.	Lamiaceae	spearmint, native type	ISO 3033-1[5]	flowering aerial parts, leaf
			spearmint, China	ISO 3033-2[6]	
			spearmint, Indian type	ISO 3033-3[7]	

Table 1 (continued)

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
127	<i>Mentha × gentilis</i> L. syn. <i>Mentha × gracilis</i> Sole	Lamiaceae	spearmint, Scotch variety	ISO 3033-4[8]	flowering aerial parts, leaf
128	<i>Mentha × piperita</i> L.	Lamiaceae	peppermint	ISO 856[3]	aerial parts, leaf
129	<i>Michelia × alba</i> DC	Magnoliaceae	magnolia	ISO 17382[82]	flowers
130	<i>Myristica fragrans</i> Houtt.	Myristicaceae	nutmeg	ISO 3215[21]	seed
			mace		seed capsule (aril)
131	<i>Myrocarpus fastigiatus</i> Allemao	Fabaceae	cabreuva		wood
132	<i>Myroxylon balsamum</i> (L.) Harms	Fabaceae	tolu balsam		exudate
133	<i>Myroxylon balsamum</i> var. <i>pereirae</i> (Royle) Harms syn. <i>Myroxylon pereirae</i> (Royle) Klotzsch	Fabaceae	Peruvian balsam		exudate
134	<i>Myrtus communis</i> L.	Myrtaceae	myrtle		leaf and terminal branchlets
135	<i>Nardostachys grandiflora</i> DC. syn. <i>Nardostachys jatamansi</i> (D.Don) DC.	Valerianaceae	spikenard		root
136	<i>Nepeta cataria</i> L.	Lamiaceae	catnip catmint		herb
137	<i>Ocimum basilicum</i> L.	Lamiaceae	basil, methyl chavicol type	ISO 11043[75]	flowering aerial top
138	<i>Ocimum americanum</i> L.	Lamiaceae	american basil		flowering aerial top
139	<i>Ocimum gratissimum</i> L.	Lamiaceae	african basil		flowering aerial top
140	<i>Ocimum tenuiflorum</i> L. syn. <i>Ocimum sanctum</i> L.	Lamiaceae	holy basil		flowering aerial top
141	<i>Ocotea cernua</i> (Nees) Mez. syn. <i>Ocotea caudata</i> (Nees) Mez.	Lauraceae	rosewood cayenne		wood
142	<i>Ocotea odorifera</i> (Vell.) Rohwer syn. <i>Ocotea pretiosa</i> (Nees) Mez	Lauraceae	Brazilian sassafras		whole plant, wood
143	<i>Origanum majorana</i> L.	Lamiaceae	sweet marjoram		flowering top
144	<i>Origanum vulgare</i> L. subsp. <i>hirtum</i> (Link) letsw.	Lamiaceae	oregano	ISO 13171[76]	flowering top
145	<i>Pandanus odorifer</i> (Forssk.) Kuntze syn. <i>Pandanus fascicularis</i> Lam.	Pandanaceae	kewda screw pine		flower
146	<i>Pelargonium ×</i> subsp.	Geraniaceae	geranium	ISO 4731[53]	herbaceous part

Table 1 (continued)

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
147	<i>Petroselinum crispum</i> (Mill.) Fuss syn. <i>Petroselinum sativum</i> Hoffm.	Apiaceae	parsley	ISO 3527[35]	fruit and herb
148	<i>Pimenta dioica</i> (L.) Merr.	Myrtaceae	pimento	ISO 4729[51]	fruit, leaf
149	<i>Pimenta racemosa</i> (Mill.) J.W. Moore	Myrtaceae	bay	ISO 3045[10]	leaf
150	<i>Pimpinella anisum</i> L.	Apiaceae	aniseed	ISO 3475[24]	fruit
151	<i>Pinus massoniana</i> Lamb.	Pinaceae	turpentine, China	ISO 21389[89]	oleoresin
152	<i>Pinus mugo</i> Turra syn. <i>Pinus montana</i> Mill.	Pinaceae	mountain pine	ISO 21093[88]	leaf (needle), terminal branchlets
153	<i>Pinus pinaster</i> Aiton	Pinaceae	turpentine	ISO 11020[74]	oleoresin
154	<i>Pinus roxburghii</i> Sarg.	Pinaceae	turpentine, India		oleoresin
155	<i>Pinus sylvestris</i> L.	Pinaceae	Scots pine		leaf (needle) terminal branchlets
156	<i>Piper cubeba</i> L.f.	Piperaceae	cubeb	ISO 3756[32]	fruit
157	<i>Piper nigrum</i> L.	Piperaceae	black pepper	ISO 3061[13]	fruit
158	<i>Pistacia lentiscus</i> L.	Anacardiaceae	mastic		twigs, terminal branchlets, exudate
159	<i>Pogostemon cablin</i> (Blanco) Benth. syn. <i>Mentha cablin</i> Blanco	Lamiaceae	patchouli	ISO 3757[38]	leaf
160	<i>Prunus dulcis</i> (Mill.) D. A. Webb syn. <i>Amygdalus communis</i> L. syn. <i>Prunus amygdalus</i> Batsch syn. <i>Prunus dulcis</i> var. <i>amara</i> (DC.) Buchheim	Rosaceae	bitter almond		fruit
161	<i>Rosa × damascena</i> Mill.	Rosaceae	rose	ISO 9842[65]	flower
162	<i>Rosa sertata</i> × <i>Rosa rugosa</i>	Rosaceae	rose, Chinese type	ISO 25157[93]	flower
163	<i>Rosmarinus officinalis</i> L.	Lamiaceae	rosemary	ISO 1342[4]	flowering top, leaf
164	<i>Ruta graveolens</i> L.	Rutaceae	rue		upper aerial parts
165	<i>Salvia officinalis</i> L.	Lamiaceae	Dalmatian sage	ISO 9909[68]	flowering top
166	<i>Salvia officinalis</i> subsp. <i>lavandulifolia</i> (Vahl) Gams syn. <i>Salvia lavandulifolia</i> Vahl	Lamiaceae	sage, Spanish type	ISO 3526[34]	flowering top
167	<i>Salvia sclarea</i> L. syn. <i>Salvia sclarea</i> var. <i>turkestaniana</i> (Noter) Mottet	Lamiaceae	clary sage		flowering top
168	<i>Santalum album</i> L.	Santalaceae	sandalwood	ISO 3518[28]	wood

Table 1 (continued)

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
169	<i>Santalum spicatum</i> (R.Br.) A. DC syn. <i>Eucarya spicata</i> (R.Br.) Sprag et Summ.	Santalaceae	Australian sandalwood	ISO 22769[91]	heartwood
170	<i>Santolina chamaecyparissus</i> L.	Asteraceae	lavender cotton		aerial parts
171	<i>Satureja hortensis</i> L.	Lamiaceae	summer savory		aerial part, leaf
172	<i>Satureja montana</i> L.	Lamiaceae	winter savory		aerial part, leaf
173	<i>Saussurea costus</i> (Falc.) Lipsch. syn. <i>Aucklandia costus</i> Falc.	Asteraceae	costus		root
174	<i>Schinus areira</i> L. syn. <i>Schinus molle</i> var. <i>areira</i> (L.) DC	Anacardiaceae	Schinus molle, Argentinean type	ISO 16385[80]	fruit
175	<i>Schinus molle</i> L.	Anacardiaceae	Schinus molle		fruit
176	<i>Schinus terebinthifolia</i> Raddi	Anacardiaceae	pink pepper		fruit
177	<i>Syzygium anisatum</i> (Vickery) Craven & Biffin syn. <i>Backhousia anisata</i> Vickery syn. <i>Anetholea anisata</i> (Vickery) Peter G. Wilson	Myrtaceae	aniseed tree aniseed myrtle ringwood		leaf (needle), terminal branchlet
178	<i>Syzygium aromaticum</i> (L.) Merr. & L. M. Perry syn. <i>Eugenia caryophyllus</i> (Spreng.) Bullock & S. G. Harrison	Myrtaceae	clove leaf	ISO 3141[17]	leaf
			clove bud	ISO 3142[18]	bud
			clove stem	ISO 3143[19]	stem
179	<i>Tagetes minuta</i> L. syn. <i>Tagetes glandulifera</i> Schrank	Asteraceae	tagete		aerial part with flowers
180	<i>Tanacetum vulgare</i> L.	Asteraceae	tansy		aerial part
181	<i>Tetradenia riparia</i> (Hochst.) Codd syn. <i>Iboza riparia</i> (Hochst.) N.E.Br.	Lamiaceae	ginger bush		leaf
182	<i>Thymbra capitata</i> (L.) Cav. syn. <i>Thymus capitatus</i> (L.) Hoffmanns. & Link	Lamiaceae	origanum, Spanish type	ISO 14717[79]	aerial parts with flowering tops
183	<i>Thymus mastichina</i> L.	Lamiaceae	Spanish wild marjoram	ISO 4728[50]	flowering top
184	<i>Thymus serpyllum</i> L.	Lamiaceae	wild thyme		flowering top
185.1	<i>Thymus vulgaris</i> L.	Lamiaceae	thyme	ISO 19817[85]	flowering top
185.2	<i>Thymus zygis</i> L.				

Table 1 (continued)

No.	Botanical name of plant	Family	English common name (essential oil of ...)	Reference	Part of the plant used
186	<i>Trachyspermum ammi</i> (L.) Sprague ex Turill	Apiaceae	ajowan		fruit
187	<i>Tsuga canadensis</i> L. Carriere	Pinaceae	hemlock, spruce		leaf (needle), terminal branchlets
188	<i>Valeriana officinalis</i> L.	Valerianaceae	valerian		rhizome, root
189	<i>Vitis vinifera</i> L.	Vitaceae	cognac oil		yeast, fungus and grape residues from which the alcoholic beverage (cognac) has been distilled
190	<i>Zanthoxylum acanthopodium</i> DC.	Rutaceae	tomarseed		fruit
191	<i>Zanthoxylum bungeanum</i> Maxim. syn. <i>Zanthoxylum alatum</i> Roxb.	Rutaceae	Chinese wild pepper		fruit
192	<i>Zanthoxylum limonella</i> Alston syn. <i>Zanthoxylum rhetsa</i> (Roxb.) DC.	Rutaceae	Sichuan pepper		fruit
193	<i>Zingiber montanum</i> (J. König) Theilade syn. <i>Zingiber cassumunar</i> Roxb.	Zingiberaceae	phlai		rhizome
194	<i>Zingiber officinale</i> Roscoe	Zingiberaceae	ginger	ISO 16928[81]	rhizome

Bibliography

- [1] ISO 770, *Crude or rectified oils of Eucalyptus globulus* (*Eucalyptus globulus* Labill.)
- [2] ISO 855¹⁾, *Oil of lemon* [*Citrus limon* (L.) Burm. f.], obtained by expression
- [3] ISO 856, *Oil of peppermint* (*Mentha x piperita* L.)
- [4] ISO 1342, *Essential oil of rosemary* (*Rosmarinus officinalis* L.)
- [5] ISO 3033-1, *Oil of spearmint — Part 1: Native type* (*Mentha spicata* L.)
- [6] ISO 3033-2, *Oil of spearmint — Part 2: Chinese type (80 % and 60 %)* (*Mentha viridis* L. var. *crispa* Benth.), redistilled oil
- [7] ISO 3033-3, *Oil of spearmint — Part 3: Indian type* (*Mentha spicata* L.), redistilled oil
- [8] ISO 3033-4²⁾, *Oil of spearmint — Part 4: Scotch variety* (*Mentha x gracilis* Sole)
- [9] ISO 3044³⁾, *Oil of eucalyptus citriodora* Hook
- [10] ISO 3045, *Oil of bay* [*Pimenta racemosa* (Mill.) J.W. Moore]
- [11] ISO 3053, *Oil of grapefruit* (*Citrus x paradisi* Macfad.), obtained by expression
- [12] ISO 3054, *Essential oil of lavandin Abrial* (*Lavandula angustifolia* Mill. x *Lavandula latifolia* Medik.), French type
- [13] ISO 3061, *Oil of black pepper* (*Piper nigrum* L.)
- [14] ISO 3063, *Oil of ylang-ylang* (*Cananga odorata* (Lam.) Hook. f. et Thomson forma *genuina*)
- [15] ISO 3064, *Essential oil of petitgrain, Paraguayan type* (*Citrus aurantium* L. var. *Paraguay* (syn. *Citrus aurantium* var. *bigaradia* Hook f.))
- [16] ISO 3140, *Oil of sweet orange* [*Citrus sinensis* (L.) Osbeck], obtained by physical extraction of the peel
- [17] ISO 3141, *Oil of clove leaves* [*Syzygium aromaticum* (L.) Merr. et Perry, syn. *Eugenia caryophyllus* (Sprengel) Bullock et S. Harrison]
- [18] ISO 3142, *Oil of clove buds* [*Syzygium aromaticum* (L.) Merr. et Perry, syn. *Eugenia caryophyllus* (Sprengel) Bullock et S. Harrison]
- [19] ISO 3143, *Oil of clove stems* [*Syzygium aromaticum* (L.) Merr. et Perry, syn. *Eugenia caryophyllus* (Sprengel) Bullock et S. Harrison]
- [20] ISO 3214⁴⁾, *Oil of Litsea cubeba* (*Litsea cubeba* Pers.)
- [21] ISO 3215, *Oil of nutmeg, Indonesian type* (*Myristica fragrans* Houtt.)
- [22] ISO 3216⁵⁾, *Oil of cassia, Chinese type* (*Cinnamomum aromaticum* Nees, syn. *Cinnamomum cassia* Nees ex Blume)

1) The next edition will use the systematic name *Citrus limon* (L.) Osbeck.

2) The next edition will use the systematic name *Mentha x gentilis* L.

3) The next edition will use the systematic name *Corymbia citriodora* (Hook.) K.D. Hill & L.A.S. Johnson. syn. *Eucalyptus citriodora* Hook.

4) The next edition will use the systematic name *Litsea cubeba* (Lour.) Pers.

5) The next edition will use the systematic name *Cinnamomum cassia* (L.) J. Presl.

- [23] ISO 3217⁶⁾, *Oil of lemongrass* (*Cymbopogon citratus*)
- [24] ISO 3475, *Oil of aniseed* (*Pimpinella anisum L.*)
- [25] ISO 3515, *Oil of lavender* (*Lavandula angustifolia Mill.*)
- [26] ISO 3516, *Oil of coriander fruits* (*Coriandrum sativum L.*)
- [27] ISO 3517, *Essential oil of neroli* (*Citrus aurantium L., syn. Citrus amara Link, syn. Citrus bigaradia Loisel, syn. Citrus vulgaris Risso*)
- [28] ISO 3518, *Oil of sandalwood* (*Santalum album L.*)
- [29] ISO 3519⁷⁾, *Oil of lime distilled, Mexican type* (*Citrus aurantifolia (Christm.) Swingle*)
- [30] ISO 3520⁸⁾, *Oil of bergamot* [*Citrus aurantium L. subsp. bergamia (Wight et Arnott) Engler, Italian type*]
- [31] ISO 3523, *Oil of cananga* [*Cananga odorata (Lam.) Hook. f. et Thomson, forma macrophylla*]
- [32] ISO 3524⁹⁾, *Oil of cinnamon leaf, Sri Lanka type* (*Cinnamomum zeylanicum Blume*)
- [33] ISO 3525, *Oil of amyris* (*Amyris balsamifera L.*)
- [34] ISO 3526¹⁰⁾, *Oil of sage, Spanish* (*Salvia lavandulifolia Vahl*)
- [35] ISO 3527¹¹⁾, *Essential oil of parsley fruits* (*Petroselinum sativum Hoffm.*)
- [36] ISO 3528, *Essential oil of mandarin, Italian type* (*Citrus reticulata Blanco*)
- [37] ISO 3756, *Oil of cubeb*
- [38] ISO 3757, *Oil of patchouli* [*Pogostemon cablin (Blanco) Benth.*]
- [39] ISO 3760, *Oil of celery seed* (*Apium graveolens L.*)
- [40] ISO 3761, *Oil of rosewood, Brazilian type* [*Aniba rosaeodora Ducke or Aniba parviflora (Meisn.) Mez.*]
- [41] ISO 3809¹²⁾, *Oil of lime (cold pressed), Mexican type* [*Citrus aurantifolia (Christm.) Swingle, obtained by mechanical means*]
- [42] ISO 3848, *Essential oil of citronella, Java type*
- [43] ISO 3849, *Oil of citronella, Sri Lankan type* [*Cymbopogon nardus (L.) W. Watson var. lenabatu Stapf.*]
- [44] ISO 4716, *Essential oil of vetiver* [*Chrysopogon zizanioides (L.) Roberty, syn. Vetiveria zizanioides (L.) Nash*]
- [45] ISO 4718¹³⁾, *Oil of lemongrass* [*Cymbopogon flexuosus (Nees ex Steudel) J.F. Watson*]

6) The next edition will use the systematic name *Cymbopogon citratus* DC. Stapf.

7) The next edition will use the systematic name *Citrus aurantiifolia* (Christm.) Swingle.

8) The next edition will use the systematic name *Citrus bergamia* Risso & Poit. syn. *Citrus aurantium* L. subsp. *bergamia* (Risso & Poit.) Wight & Arn. ex Engl.

9) The next edition will use the systematic name *Cinnamomum verum* J.Presl. syn. *Cinnamomum zeylanicum* Blume.

10) The next edition will use the systematic name *Salvia officinalis* subsp. *lavandulifolia* (Vahl) Gams. syn. *Salvia lavandulifolia* Vahl.

11) The next edition will use the systematic name *Petroselinum crispum* (Mill.) Fuss. syn. *Petroselinum sativum* Hoffm.

12) The next edition will use the systematic name *Citrus aurantiifolia* (Christm.) Swingle.

13) The next edition will use the systematic name *Cymbopogon flexuosus* (Nees ex Steud.) W. Watson.

- [46] ISO 4719, *Essential oil of spike lavender* (*Lavandula latifolia* Medikus), *Spanish type*
- [47] ISO 4724, *Oil of cedarwood, Virginian* (*Juniperus virginiana* L.)
- [48] ISO 4725¹⁴⁾, *Oil of cedarwood, Texas* (*Juniperus mexicana* Schiede)
- [49] ISO 4727, *Oil of palmarosa* [*Cymbopogon martinii* (Roxburgh) W. Watson var. *motia*]
- [50] ISO 4728, *Oil of Spanish wild marjoram* (*Thymus mastichina* L.)
- [51] ISO 4729, *Oil of pimento leaf* [*Pimenta dioica* (Linnaeus) Merrill]
- [52] ISO 4730, *Essential oil of Melaleuca, terpinen-4-ol type* (*Tea Tree oil*)
- [53] ISO 4731, *Essential oil of geranium* (*Pelargonium* × *ssp.*)
- [54] ISO 4733, *Oil of cardamom* [*Elettaria cardamomum* (L.) Maton]
- [55] ISO 8896, *Essential oil of caraway* (*Carum carvi* L.)
- [56] ISO 8897, *Oil of juniper berry* (*Juniperus communis* L.)
- [57] ISO 8898, *Oil of mandarin petitgrain* (*Citrus reticulata* Blanco)
- [58] ISO 8899¹⁵⁾, *Oil of lemon petitgrain* [*Citrus limon* (L.) Burm. f.]
- [59] ISO 8900¹⁶⁾, *Oil of bergamot petitgrain* [*Citrus bergamia* (Risso et Poit.)]
- [60] ISO 8901, *Oil of bitter orange petitgrain, cultivated* (*Citrus aurantium* L.)
- [61] ISO 8902, *Oil of lavandin Grosso* (*Lavandula angustifolia* Mill. × *Lavandula latifolia* Medik.), *French type*
- [62] ISO 9301, *Oil of cumin seed* (*Cuminum cyminum* L.)
- [63] ISO 9776¹⁷⁾, *Oil of Mentha arvensis, partially dementholized* (*Mentha arvensis* L. var. *piperascens* Malinv. and var. *glabrata* Holmes)
- [64] ISO 9841¹⁸⁾, *Essential oil of hyssop* (*Hyssopus officinalis* L. ssp. *officinalis*)
- [65] ISO 9842, *Oil of rose* (*Rosa* × *damascena* Miller)
- [66] ISO 9843¹⁹⁾, *Oil of cedarwood, Chinese type* (*Cupressus funebris* Endlicher)
- [67] ISO 9844, *Oil of bitter orange* (*Citrus aurantium* L.)
- [68] ISO 9909, *Oil of Dalmatian sage* (*Salvia officinalis* L.)
- [69] ISO 10115, *Essential oil of tarragon* (*Artemisia dracunculus* L.)
- [70] ISO 10624²⁰⁾, *Oil of elemi* (*Canarium luzonicum* Miq.)

14) The next edition will use the new systematic name *Juniperus ashei* J. Buchholz.

15) The next edition will use the systematic name *Citrus limon* (L.) Osbeck.

16) The next edition will use the systematic name *Citrus bergamia* Risso & Poit. syn. *Citrus aurantium* L. subsp. *bergamia* (Risso & Poit.) Wight & Arn. ex Engl.

17) The next edition will use the new systematic name *Mentha canadensis* L. syn. *Mentha arvensis* var. *piperascens* Malinv. ex Holmes syn. *Mentha arvensis* var. *glabrata* (Benth.) Fernald.

18) The next edition will use the systematic name *Hyssopus officinalis* L.

19) The next edition will use the new systematic name *Cupressus funebris* Endl. syn. *Chamaecyparis funebris* (Endl.) Franco.

20) The next edition will use the systematic name *Canarium luzonicum* (Blume) A. Gray.

- [71] ISO 10869, *Oil of fir needle, Siberian* (*Abies sibirica* Ledeb.)
- [72] ISO 11016, *Oil of star anise, Chinese type* (*Illicium verum* Hook. f.)
- [73] ISO 11019, *Oil of roots of lovage* (*Levisticum officinale* Koch)
- [74] ISO 11020²¹⁾, *Oil of turpentine, Iberian type* (*Pinus pinaster* Sol.)
- [75] ISO 11043, *Oil of basil, methyl chavicol type* (*Ocimum basilicum* L.)
- [76] ISO 13171, *Essential oil of oregano* [*Origanum vulgare* L. subsp. *hirtum* (Link) letsw.]
- [77] ISO 14715, *Oil of thyme containing thymol, Spanish type* [*Thymus zygis* (Loefl.) L.]
- [78] ISO 14716²²⁾, *Oil of galbanum* (*Ferula galbaniflua* Boiss. et Buhse)
- [79] ISO 14717²³⁾, *Oil of origanum, Spanish type* [*Coridothymus capitatus* (L.) Rchb.f.]
- [80] ISO 16385, *Essential oil of molle* (*Schinus areira* L.), *Argentinean type*
- [81] ISO 16928, *Essential oil of ginger* (*Zingiber officinale* Roscoe)
- [82] ISO 17382, *Oil of magnolia flower, China type* (*Michelia* × *alba* DC)
- [83] ISO 17412, *Oil of bitter fennel* (*Foeniculum vulgare* Mill. ssp. *vulgare* var. *vulgare*)
- [84] ISO 19332²⁴⁾, *Oil of blue chamomile* [*Chamomilla recutita* (L.) Rauschert syn. *Matricaria chamomilla* auct.]
- [85] ISO 19817, *Essential oil of thyme* [*Thymus vulgaris* L. and *Thymus zygis* L.], *thymol type*
- [86] ISO 20809, *Essential oil of cypress* [*Cupressus sempervirens* L.]
- [87] ISO/TR 21092, *Essential oils — Characterization*
- [88] ISO 21093, *Oil of dwarf pine* (*Pinus mugo* Turra)
- [89] ISO 21389, *Oil of gum turpentine, Chinese (mainly from Pinus massoniana Lamb.)*
- [90] ISO 21390²⁵⁾, *Oil of wintergreen, China* [*Gaultheria yunnanensis* (Franch.) Rehd.], *redistilled*
- [91] ISO 22769, *Oil of Australian sandalwood* [*Santalum spicatum* (R.Br.) A.DC.]
- [92] ISO 23954²⁶⁾, *Oil of lime expressed, Persian type* (*Citrus latifolia* Tanaka)
- [93] ISO 25157, *Essential oil of rose, Chinese Kushui type* (*Rosa sertata* × *Rosa rugosa*)

21) The next edition will use the systematic name *Pinus pinaster* Aiton.

22) The next edition will use the systematic name *Ferula gummosa* Boiss. syn. *Ferula galbaniflua* Boiss. et Buhse.

23) The next edition will use the systematic name *Thymbra capitata* (L.) Cav. syn. *Thymus capitatus* (L.) Hoffmanns. & Link.

24) The next edition will use the systematic name *Matricaria chamomilla* L. syn. *Chamomilla recutita* (L.) Rauschert and the title will be changed to *Essential oil of chamomile, blue* (*Matricaria chamomilla* L. syn. *Chamomilla recutita* (L.) Rauschert).

25) The next edition will use the systematic name *Gaultheria procumbens* L.

26) The next edition will use the systematic name *Citrus* × *latifolia* (Yu. Tanaka) Tanaka.