



Clethra L. (Clethraceae)

VEGETATIVE KEY TO SPECIES IN CULTIVATION

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Vegetative identification key.

Introduction:

This key is based on vegetative characteristics, and therefore also of use when flowers and fruits are absent.

- Use a 10x hand lens to check pubescence in general.
- Look at the entire plant.
- Beware of hybridisation, especially with plants raised from seed other than wild origin.

Abbreviations used in this key:

- **L/W** = length/width
- **LS** = lower surface
- **US** = upper surface

Taxa treated in this key: → p3.

References:

- JDL herbarium and [illustrations](#)
- living specimens, in various arboreta, botanic gardens and collections
- literature:

Bean, W.J. & Clarke, D.L. - (1980) - *Clethra* in Bean's Trees and Shrubs hardy in the British Isles 1, p.668-673. - and [Trees and Shrubs Online](#)
Qin, H. & Fritsch, P. - (2005) - *Clethra* in Flora of China 14, p.238-241. - and [online edition](#)
Krüssmann, G. - (1977) - *Clethra* in Handbuch der Laubgehölze 1, p.383-385.

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01 a	Plant (semi-)evergreen, lamina rather coriaceous.	02
b	Plant deciduous, lamina rather chartaceous.	08
02 a	Petiole 6-10(-12) mm.	<i>C. pringlei</i>
b	Petiole predominantly 10-30 mm.	03
03 a	Lamina LS pale grayish green to yellowish green.	04
b	Lamina LS green.	05
04 a	Lamina US glabrous - midvein excepted (10x LENS).	<i>C. luzmariae</i>
b	Lamina US pubescent (10x LENS).	<i>C. mexicana</i>
05 a	Lamina LS with ≤10 secondary veins/side.	<i>C. species 'Vietnam'</i>
b	Lamina LS with 14-18 (-more) veins/side.	06
06 a	Lamina LS midvein and petiole glabrous to pubescent with minute appressed hairs (10x LENS).	<i>C. conzattiana</i>
b	Lamina LS midvein conspicuously pubescent with long spreading hairs (10x LENS).	07
07 a	Petiole green. Lamina US midvein green and subglabrous (10x LENS).	<i>C. arborea</i>
b	Petiole pinkish red. Lamina US midvein pinkish red and densely pubescent at least in basal half (10x LENS).	<i>C. poilanei</i>
08 a	Lamina LS predominantly with 6-12 secondary veins/side.	09
b	Lamina LS predominantly with (12-)14-18 secondary veins/side.	12
09 a	Lamina apex acute to acuminate.	10
b	Lamina apex acute.	11
10 a	Lamina LS secondary veins and tertiary transverse veinlets strongly raised.	<i>C. acuminata</i>
b	Lamina LS secondary veins not or slightly raised.	<i>C. cavaleriei</i>
11 a	Shoot initially pubescent with minute short hairs (10x LENS). Petiole 10-20 (-more) mm.	<i>C. alnifolia</i>
b	Shoot initially pubescent with long hairs (10x LENS). Petiole 6-12 mm.	<i>C. tomentosa</i>
12 a	Lamina halfway with midvein/secondary vein angle predominantly >45°.	13
b	Lamina halfway with midvein/secondary vein angle predominantly ≤45°.	14
13 a	Lamina LS pubescent throughout (10x LENS).	<i>C. delavayi</i>
b	Lamina LS pubescent on midvein, secondary veins + axils (10x LENS).	<i>C. monostachya</i>
14 a	Lamina margin finely serrate with appressed teeth (10x LENS).	<i>C. poilanei</i>
b	Lamina margin coarsely serrate with spreading teeth (10x LENS).	15
15 a	Lamina L/W ratio +/- 2/1, US soon glabrous (10x LENS).	<i>C. barbinervis</i>
b	Lamina L/W ratio clearly >2/1, US pubescent with long hairs (10x LENS).	<i>C. fargesii</i>

Taxa treated in this identification key.

C. acuminata
C. alnifolia
C. arborea
C. barbinervis
C. cavaleriei
C. conzattiana
C. delavayi

C. fargesii
C. luzmariae
C. mexicana
C. monostachya
C. poilanei
C. pringlei
C. tomentosa

