## **FLORA**OF AUSTRALIA

- Thryptomene Endl.

Q ALA (https://bie.ala.org.au/species/https://id.biodiversity.org.au/taxon/apni/51440403) Q NSL [nom. cons.] (https://biodiversity.org.au/nsl/services/apni-format/display/77151)

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- Endlicher, S.F.L. (1838), Stirpium Australasicarum Herbarii Hugeliani Decades Tres: 192

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#### Nomenclature

♥ Council of Heads of Australasian Herbaria (2010), Australian Plant Census ()



#### Etymology



From the Greek *thryptomene* (broken or made small), perhaps referring to the small leaves or flowers.



#### Type



Thryptomene australis Endl.

#### Тор

#### Description

Prostrate to tall shrubs, rarely trees, glabrous. Young stems smooth (not tuberculate), white or pale grey, usually dotted with oil glands. Leaves opposite, decussate, small, shortly petiolate or (in *T. naviculata*) sessile. Peduncles 1-3 per axil, 1-3-flowered, but with most species having just a single 1-flowered peduncle per axil, usually dorsiventrally compressed. Bracteoles free, keeled, usually narrowly to broadly ovate. Pedicels ± absent in most species. Flowers primarily 5-merous or (in 2 species) 6- or 7-merous, actinomorphic. Hypanthium with a greater diameter than length in most species, longer than wide and/or dorsiventrally compressed in some species, longitudinally ribbed in about half the species, with varied other kinds of ornamentation less common; free part usually short. Sepals much shorter than to slightly longer than the petals, sometimes auriculate but auricles usually very small, persistent in fruit. Petals 5 (−7), broad, widely spreading in flower, white to deep pink or pink-purple or (in 1 species) yellow, in most species closed inwards in fruit; antipetalous colleters absent or minute. Staminodes rare or absent. Stamens inflexed in bud, 5-40, when very few then all antisepalous, when numerous then in 2 series with outer series longer, much shorter than the petals. Filaments free. Anthers dorsifixed, versatile or nonversatile, broader than long; thecae divergent at base, compact, dehiscent by a pore or slit, often globular, commonly brown, sometimes becoming deeply 2-lobed after dehiscence if the slits are long; connective gland free, dorsal-subterminal or terminal, large, either broad and truncate (cup-shaped) or narrower and curved-urceolate, releasing contents by a pore facing centre of flower. Ovary inferior, 1-locular; summit concave, in most species pale at first and turning deep pink or red with age; placenta near-basal or ± lateral; ovules erect (not pendulous), 2 and collateral or 4-10 in 2 rows. Style central and terminal (base not inset); stigma capitate. Fruits indehiscent, inferior (but often with a convex summit protruding

upwards), broader than long in most species, all or mostly 1-seeded. Seeds transversely reniform or of other depressed shapes in most species, erect and longer than wide in a few species, the maximum dimension (length or more commonly the width) 1.2–2.1 mm long or across; testa membranous.

#### **Diagnostic Features**

Distinctive in its anther morphology, which includes two basally divergent thecae and a free, large connective gland. Other important characters: ovary inferior, 1-locular, with ovules erect on a near-basal or ± lateral placenta; style terminal; fruits indehiscent.

#### **Chromosome Numbers**

n = 9-11, with tetraploid numbers of n = 18 and n = 22 also recorded (Rye 1979).

#### **Biostatus**

Native.

#### Distribution

A genus of 54 formally named species and three phrase-named taxa, endemic to and widespread in Australia but with most species restricted to Western Australia and a marked concentration of them in the southwest.

#### **Ecology**

Flowers attract varied insect pollinators to readily accessible nectar. Wind-dispersal of the small, ### dehiscent fruits may be assisted by persistent widely spreading sepals and sometimes also petals, but most species lack obvious adaptations to wind dispersal. Fertile fruits are normally 1-seeded but \*\*Casional 2-seeded fruits have been reported in a few species. Sterile fruits are often far more common than fertile ones, but despite their lack of a seed may be larger and much harder than the fertile ones.

#### Ä

### Nomenclature and Typification

Phryptomene Endl., Stirpium Herbarii Hügeliani 3: 192 (1838), nom. cons.; Tryptomene F.Muell., Fragmenta Phytographiae Australiae Occidentalis 1(1): 11 (1858), orth. var. Type: Thryptomene australis Endl.

Gomphotis Raf., Sylva Telluriana: 103 (1838), nom. rej. Type: Gomphotis saxicola (A.Cunn. ex Hook.) Raf. [= Thryptomene saxicola (A.Cunn. ex Hook.) Schauer].

Paryphantha Schauer, Linnaea 17: 235–236 (1843); Thryptomene sect. Paryphantha (Schauer) Kuntze in T. Post & O. Kuntze, Lexicon Generum Phanerogarum 559 (1903). Type: Paryphantha mitchelliana Schauer, nom. illeg. [= Thryptomene calycina (Lindl.) Stapf].

Astraea Schauer, Linnaea 17: 238 (1843), nom. illeg., nom. superfl.; Thryptomene sect. Astraea (Schauer) Stapf., Curtis's Botanical Magazine 149: t. 8995 (1924). Type: Astraea saxicola (A.Cunn. ex Hook.) Schauer. [= Thryptomene saxicola (A.Cunn. ex Hook.) Schauer].

Bucheria Heynh., Nomenclator Botanicus Hortensis 2: 80 (1846), nom. illeg., nom. superfl. Type: Bucheria saxicola (Hook.) Heynh., nom. illeg. [= Thryptomene saxicola (A.Cunn. ex Hook.) Schauer].

#### **Taxonomic Notes**

Thryptomene was previously considered to be very closely related to Micromyrtus Benth. and to the species that have been transferred from Thryptomene s. lat. into Aluta Rye & Trudgen; however, Thryptomene s. str. is now treated as the sole member of subtribe Thryptomeninae based on molecular evidence (Rye et al. 2020). The three genera are readily distinguished by their anther morphology, which is illustrated in Green (1980) for one species of Aluta (as T. maisonneuvei) and for several species of Micromyrtus and Thryptomene.

Thryptomene was divided into the following five sections by Stapf (1924): sect. Euthryptomene Kuntze, nom. inval. (= sect. Thryptomene), sect. Astraea (Schauer) Stapf., sect. Oligandron Stapf, sect. Paryphantha (Schauer) Kuntze, and sect. Thryptocalpe Stapf. This infra-generic classification needs to be revised to reflect the broader range of morphological characters found in species published since then and the molecular evidence.

One unusual character found in about eight species, including *T. calycina*, is the presence of two or three peduncles in many of the leaf axils. Where this occurs, the peduncles are highly dorsiventrally compressed and stacked one above the other in an axil. Another unusual character, found in many Western Australian species, is the occurrence of 10 almost equidistant stamens, all positioned in the gaps between the sepals and petals (described here as 'alternating with the sepals and petals'). In many such cases the stamens are actually in five pairs opposite the sepals although the paired stamens are widely spaced as they are situated close to each margin of a sepal. The anthers may become deeply 4-lobed after dehiscence, as in all members of sect. *Thryptocalpe*.

To facilitate future work, brief descriptions are provided of the distinctive species *T.* sp. Missionary Plain (A. Schubert 267) from central Australia in the Northern Territory, and two poorly known Western Australian entities known as *T.* sp. Coolgardie (E. Kelso *s.n.* 1902) and *T.* sp. Warburton (M. Henson & M. Hannart 32433).

A key to taxa is available in Rye (2024), https://www.biodiversitylibrary.org/page/64192973. (https://www.biodiversitylibrary.org/page/64192973.)

#### Key to species and subspecies

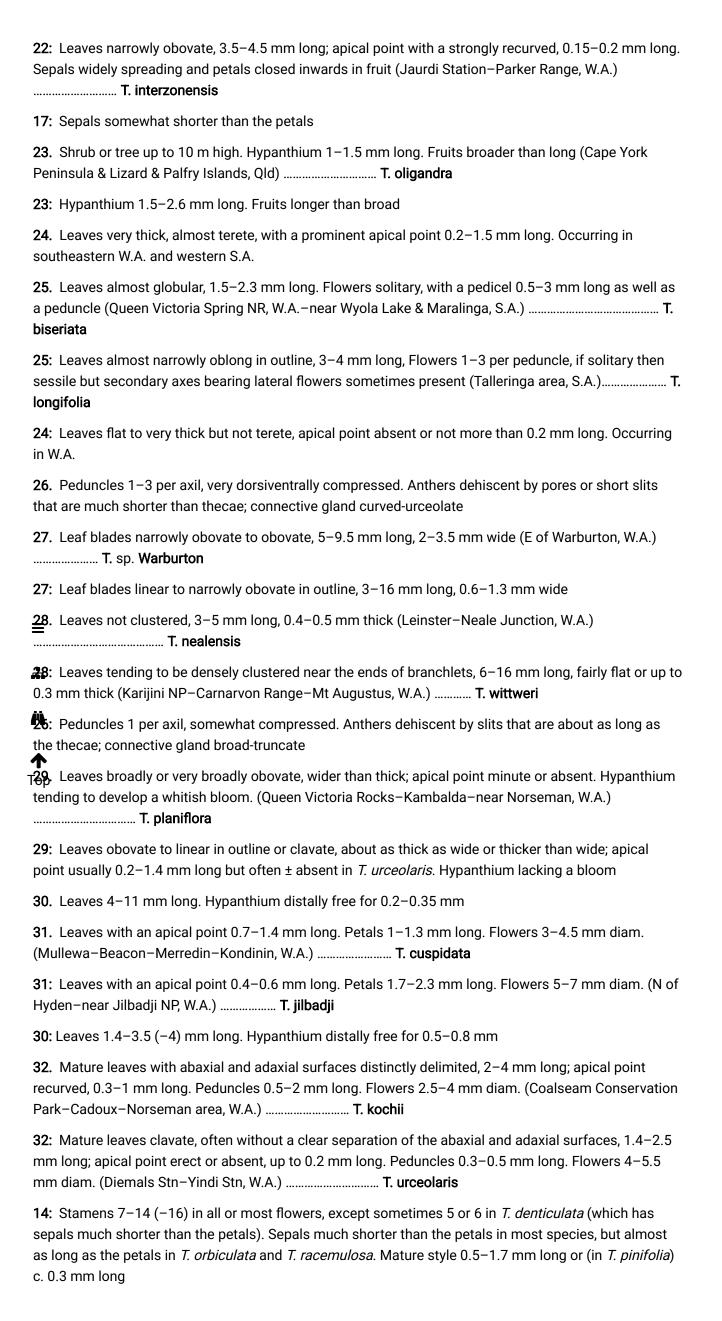
- 1. Ovules 4-10, in 2 rows. Hypanthium with 9-16 irregular, closely packed, longitudinal ribs
- 2. Stamens 15-40 in 2 series

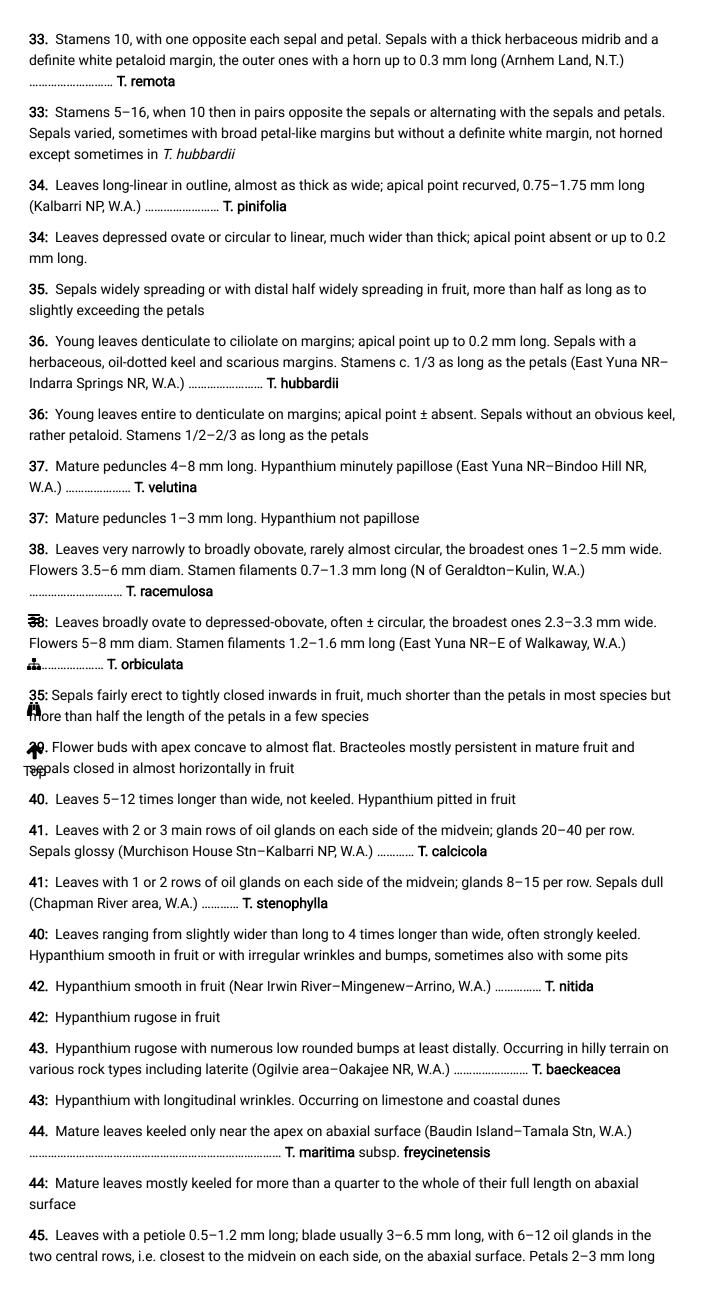
- 2: Stamens 5–13 in 1 series
- **4.** Leaves more than half as thick as wide and sometimes slightly thicker than wide, 0.5-1.5 mm wide and 0.4-1.2 mm thick
- Leaves almost terete with an adaxial groove, 2.4–4.5 mm long, with a subterminal point 0.8–1.5 mm long. (Menzies–Pinjin Stn, W.A.) ....... T. eremaea
- 5: Leaves triangular or indented-triangular in TS towards the apex and tending to be more flattened below, 3–7 mm long, tapered at apex to a terminal point 0.5–1 mm long

- **4:** Leaves dorsiventrally compressed such that they are less than 1/3 as thick as wide, 0.9-2.6 mm wide
- 7: Leaf apical point absent or up to 0.5 mm long. Ovules 4–6. Recorded mostly around low-lying winterwet sites or on drainage lines but the habitat of T. sp. Coolgardie unknown
- **8:** Stamens 7–10, never consistently 7, often 10 with 1 opposite each sepal and petal. Mature style 0.6–0.8 mm long

9. Rapidly growing young stems not winged. Occurring north of Geraldton 10. Hypanthium ribs flattened and tightly pressed together giving a striate appearance. Leaves narrowly to broadly obovate to almost circular; apical point 0-0.1 mm long. Stamens usually 10, rarely 9 (Kalbarri NP-W of Binnu, W.A.) ...... T. striata 10: Hypanthium ribs rounded to almost acute and separated by v-shaped sinuses. Leaves obovate to almost circular; apical point 0.2-0.5 mm long. Stamens 7-9 (Kalbarri NP, W.A.) ............. T. johnsonii 9: Rapidly growing young stems narrowly 4-winged. Occurring south of Geraldton 11. Leaf blades narrowly to broadly obovate,  $2-7 \times 0.9 - 2.1$  mm; apical point absent or up to 0.3 (-0.5) mm long. Occurring less than 200 km from the coast (Wilroy-Gingin-Ejanding, W.A.) ...... T. mucronulata 11: Leaf blades very broadly obovate, 2-3 × 1.8-2.3 mm; apical point 0.4-0.5 mm long. Occurring more than 500 km inland (Coolgardie area, W.A.) ...... T. sp. Coolgardie 1: Ovules 2, collateral. Hypanthium with a rugose to almost smooth surface or with more regular, spaced ribs 12. Flowers all or mostly 6- or 7-merous, with 6-8 stamens 13. Leaves with a petiole 0.6-0.8 mm long. Sepals 0.8-1.3 mm long, ± entire. Occurring in central and eastern Australia (Palm Valley, N.T. & N of Charleville, Qld-near Dubbo, N.S.W.) ....... T. hexandra 13: Leaves sessile. Sepals 1.8-2.5 mm long, deeply denticulate-laciniate. Occurring in W.A. (near Jigalong-Karlamilyi NP-near Gibson Desert NR, W.A.) ...... T. naviculata 12: Flowers all or mostly 5-merous, with 5–16 stamens, but most species primarily with either 5 or 10 stamens **14.** Stamens 5 in all or most flowers. Sepals slightly shorter than to distinctly longer than the petals.  $\underline{\mathbf{M}}$ ature style 0.25–0.5 (–0.6) mm long 15. Sepals and petals yellow. Leaf blades as broad as or broader than long (1.5–2.2 mm long, 1.5–2.5 mm wide); apical point recurved, up to 0.2 mm long. Occurring in N.T. (Missionary Plain, N.T.) ...... T. sp. Missionary Plain **15:** Sepals and petals white or pink. Leaf blades narrower than long in most species, always differing in some respects from above choice. Occurring in W.A., S.A. or eastern Australia Hypanthium broad at the base and usually becoming saccate (pouched on each side of the peduncle). Outermost sepal strongly ridged, sometimes shortly horned (Ilkurlka area, Great Victoria Desert, W.A.-Wynbring, S.A.) ...... T. elliottii 16: Hypanthium narrow where the peduncle is attached, not saccate. Outermost sepal not strongly ridged 17. Sepals somewhat longer than the petals 18. Leaves narrowly obovate-elliptic to linear in outline, 0.7-1.2 mm wide, 0.3-0.5 mm thick (Kangaroo Island & Eyre Peninsula, S.A.) ...... T. ericaea 18: Leaves narrowly elliptic or narrowly obovate to broadly obcordate, 1–4 mm wide, not very thick **19.** Petals 0.5–0.8 mm long 20. Petioles 0.8-1.7 mm long. Leaf blades narrowly obovate, 1.8-2.6 mm wide. Hypanthium prominently 10-ribbed (Eyre Peninsula, S.A. – eastern Tas.) ...... T. micrantha 20: Petioles 0.4-0.7 mm long. Leaf blades narrowly obovate, 1-1.3 mm wide. Hypanthium somewhat irregularly ribbed (Suttor River, Qld-near N.S.W. border) ....... T. parviflora **19**: Petals 0.8–1.4 mm long 21. Leaf blades 5–12 mm long. Peduncles 1–3 per axil, 1.3–2.5 mm long, 1–3-flowered. Occurring in Victoria (Grampians area, Vic.) ...... T. calycina 21: Leaf blades 1.7-5 mm long. Peduncles 1 per axil, 0.4-1 mm long, 1-flowered 22. Leaves broadly or very broadly obovate, 1.7-3 mm long; apical point absent or fairly erect. Sepals

and petals erect in fruit (Eurardy Stn-Yuna area & Mt Singleton, W.A.) ..... T. pieroniae





limestone and on sand dunes, usually in low coastal shrubland (N of Kalbarri-Yardanango NR, W.A.) ...... T. maritima subsp. maritima 46: Peduncles borne at 5-14 consecutive nodes, 0.1-0.7 (-1) mm long. Recorded in gullies and gorges, **45:** Leaves with a petiole 0.2-0.7 mm long; blade usually 1.3-3 mm long (rarely up to 5 mm long in T. dampieri but still with a short petiole), usually with 2-6 oil glands in the two central rows, i.e. closest to the midvein on each side, on the abaxial surface. Petals 1.3-2 (-2.3) mm long 47. Peduncles borne at 7–17 consecutive nodes. Petals 1.3–1.7 mm long (near Leeman–Lancelin, W.A.) ..... T. butleri 47: Peduncles borne at 2-8 consecutive nodes. Petals 1.5-2 (-2.3) mm long (Exmouth area-Dirk Hartog Island-Hamelin Pool, W.A.) ...... T. dampieri subsp. dampieri 39: Flower buds with apex usually convex to conic or flat in most species, but flat to concave in T. podantha. Bracteoles caducous to persistent, if persistent then sepals fairly erect or only loosely closed inwards in fruit 48. Hypanthium ribbed to smooth in flower, becoming smooth or almost smooth in mature fruit, if not fully smooth then with a distinct pedicel as well as a peduncle **49.** Bracteoles persistent after fruits fall. Petals 3–3.5 mm long. Stamen filaments 1.5–1.7 mm long. 49: Bracteoles shed in bud or flower. Petals 2-2.5 mm long. Stamen filaments 0.6-0.8 mm long. Fruits with a peduncle 0.5–1.5 mm long and a pedicel 1–1.4 mm long (Meadow Stn-near Yuna, W.A.) ..... T. podantha 48: Hypanthium variously ornamented in flower, not becoming smooth in fruit, the pedicel ± absent or <u>Le</u>ss than 0.3 mm long 50. Bracteoles caducous or shed in flower. Sepals folded and with an acute apex 51. Sprawling coastal dune plant, rooting at nodes of prostrate stems. Mature style c. 1.3 mm long, almost as long as the petals (Dirk Hartog Island & Steep Point, W.A.) ...... T. repens 51: Erect to widely spreading shrub, without adventitious roots, occurring inland or near the coast but not on dunes. Mature style 0.4–0.8 mm long, much shorter than the petals  $^{1}$  Hypanthium somewhat ribbed at first, becoming smoother in fruit or the ribs more rounded (Zuytdorp NR-Meadow Stn-Pindar, W.A.) ...... T. strongylophylla **52:** Hypanthium densely blistered in bud, densely tuberculate in fruit **53**. Longest sepals 1–1.5 mm long. Flowers with a conic apex in late bud, mostly with 10 stamens (Zuytdorp Cliffs-Kalbarri NP) ...... T. conica 53: Longest sepals 0.4-0.8 mm long. Flowers with a convex apex in late bud, mostly with 7-9 stamens 54. Flowers deeply convex in late bud, 5-6 mm diam. when fully open. Sepals (0.5-) 0.6-0.8 mm long, fairly erect (near Hamelin Pool, W.A.) ...... T. caduca subsp. caduca 54: Flowers shallowly convex in late bud, 3.5-4 mm diam. when fully open. Sepals 0.4-0.6 mm long, subsp. incurva 50: Bracteoles mostly persistent in fruit, if caducous then sepals with a rounded apex 55. Hypanthium (in flower) rugose with wrinkles or ridges as well as pits. Outer sepals distinctly auriculate **56.** Mature peduncles 0.5–2.5 mm long. Sepals distinctly keeled, denticulate to laciniate; margins often 56: Mature peduncles ± absent, 0−0.3 mm long. Sepals not keeled, ± entire; margins incurved 57. Leaves mostly with the apex (including dorsal ridge) recurved. Bracteoles with the midrib not very prominent (near Wannoo, W.A.) ...... T. wannooensis

**46.** Peduncles borne at 1–8 consecutive nodes, 0.6–2 mm long. Recorded in crevices in sandstone or

**57:** Leaves with the apex (of the dorsal ridge) incurved. Bracteoles with the keel forming a prominent compressed ridge (Kalbarri NP–near Eurardy Stn–Mullewa, W.A.) .. **T. globifera** 

55: Hypanthium pitted. Outer sepals not or scarcely auriculate

**58:** Peduncles solitary in the axils, all 1-flowered or rarely a few of them 2-flowered. Occurring north of Perth, mainly on sand or laterite

**59:** Leaf blades (2.5–) 3–8 mm long. Mature peduncles 3–11 mm long. Bracteoles usually caducous or shed in flower

**60**: Hypanthium (in mature fruit) with numerous small shallow pits, sometimes also papillose. Occurring north of Geraldton (Howatharra–near Chapman River, W.A.) ........................... **T. stapfii** 

#### Illustrations

J.W. Green, *Nuytsia* 3(2): 186, figs 12–19 (1980), https://www.biodiversitylibrary.org/page/53144077 (https://www.biodiversitylibrary.org/page/53144077); 189, figs 20–39,

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#### Source

Published 26 May 2025.

#### **Taxonomy**

- Phylum: Charophyta
- Class: Equisetopsida
- Subclass: Magnoliidae
- Superorder: Rosanae **\≡**()
- Order: Myrtales \\ \exi()
- Genus: Thryptomene (/opus/foa/profile/Thryptomene) **\\ \=** ()

Cite this profile as: B.L. Rye. Thryptomene, in J.A. Wege & K.S. Downes (ed.), Flora of Australia. Australian Biological Resources Study, Department of Climate Change, Energy, the Environment and Water: Canberra. https://profiles.ala.org.au/opus/foa/profile/Thryptomene [Date Accessed: 16 June 2025]

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