

**Table S1.** Linalool in the essential oil constituents of its natural sources (>10%).

Common name	Botanic name	Oil source	Linalool (%)
Jonquil	<i>Narcissus jonquilla</i> L.	Flowers	17.8
Ylang-ylang	<i>Cananga odorata</i> J. D. Hook. & T. Thompson f. <i>odorata</i>	Flowers	13.2
Coriander	<i>Coriandrum sativum</i> L.	Seeds	59.0–87.5
Coriander	<i>Coriandrum sativum</i> L.	Leaves	4.3–17.5
Khella	<i>Ammi visnaga</i> L.	Seeds	28.8
Ghandi root	<i>Homalomena aromatica</i> Schott.	Rhizomes	62.1
Immortelle	<i>Helichrysum italicum</i> subsp. <i>microphyllum</i>	Flowering plant	17.3
Linaloe wood	<i>Bursera glabrifolia</i> Humb.	Wood	30.0
Honeysuckle	<i>Lonicera periclymenum</i> L.	Flowers	75.0
Geranium	<i>elargonium x asperum</i> Ehrh. ex Willd	Leaves	13.9
Thyme (linalool CT)	<i>Thymus vulgaris</i> L.	Aerial parts	73.6–79.0
Bee balm	<i>Monarda didyma</i> L.	Flowering plant	64.5–74.2
Marjoram wild (linalool CT)	<i>Origanum majorana</i> L.	Leaves	67.7
Basil (linalool CT)	<i>Ocimum basilicum</i> L.	Leaves	53.7–58.3
Mint (bergamot)	<i>Mentha aquatica</i> L. var. <i>citrate</i>	Aerial parts	24.9–55.2
Hyssop (linalool CT)	<i>Hyssopus officinalis</i> L. var. <i>decumbens</i> Briq.	Aerial parts	48.0–51.7
Basil (hairy)	<i>Ocimum americanum</i> L. var. <i>pilosum</i>	Leaves	31.7–50.1
Lavender	<i>Lavandula angustifolia</i> Mill.	Flowering tops	25.0–45.0
Lavandin	<i>Lavandula x intermedia</i> Emeric ex Loisel	Flowering tops	30.0–38.0
Lavandin Super	<i>Lavandula hybrida</i> Reverchon,	Flowering tops	29.4–32.7
Basil (linalool CT)	<i>Ocimum basilicum</i> L.	Leaves	34.4
Basil (methyl cinnamate CT)	<i>Ocimum basilicum</i> L.	Leaves	17.3–27.3
Clary sage	<i>Salvia sclarea</i> L.	Leaves and flowering tops	9.0–19.3
Sage (wild mountain)	<i>Hemizygia petiolata</i> Ashby	Aerial parts	15.0
Ho leaf (linalool CT)	<i>Cinnamomum camphora</i> Sieb. var. <i>glavescens</i> Hayata	Leaves	66.7–90.6
Rosewood	<i>Aniba rosaeodora</i> Ducke	Woods	82.3–90.3
Magnolia leaf	<i>Michelia alba</i> DC	Flowers	78.9
Champaca (white)	<i>Michelia alba</i> DC	Flowers	76.3
Magnolia flower	<i>Michelia alba</i> DC	Flowers	69.9
Rosalina	<i>Melaleuca ericifolia</i> Smith	Leaves	35.0–55.0
Niaouli (linalool CT)	<i>Melaleuca quinquenervia</i> Cav.	Leaves	23.9
Jasmine sambac	<i>Jasminum sambac</i> L.	Flowers	13.9
Tomar seed	<i>Zanthoxylum armatum</i> DC	Pericarp of dried fruits	72.0
Neroli	<i>Citrus x aurantium</i> L.	Flowers	31.4–54.3
Orange leaf	<i>Citrus x aurantium</i> L.	Leaves	42.5
Orange flower	<i>Citrus x aurantium</i> L.	Flowers	30.0–32.0

Neroli	<i>Citrus x aurantium</i> L.	Flowers	31.4–54.3
Orange flower & leaf water	<i>Citrus x aurantium</i> L.	A mixture of flower and leaf water	51.6
Orange leaf (Paraguayan)	<i>Citrus x aurantium</i> L.	Leaves	20.8–25.2
Bergamot (expressed)	<i>Citrus bergamia</i> Risso & Poit.	Fruit peel, by expression	1.7-20.6
Bergamot (FCF)	<i>Citrus bergamia</i> Risso & Poit.	Fruit peel, by expression	4.0-20.0
Ginger lily	<i>Hedychium coronarium</i> Koenig	Flowers	29.3
Sanna	<i>Hedychium spicatum</i> Sm.	Rhizomes	25.6

**Table S2.** Myrcene in the essential oil constituents of its natural sources (>10%).

Common name	Botanic name	Oil source	Myrcene (%)
Mastic	<i>Pistacia lentiscus</i> L.	Gum resin	0.2-12.3
Pepper (pink)	<i>Schinus molle</i> L.	Fruits	50-20.4
Ylang-ylang	<i>Cananga odorata</i>	Fruits	24.7
Celery leaf	<i>Apium graveolens</i> L.	Leaves and stems	33.6
Parsley (Egyptian)	<i>Petroselinum crispum</i> Mill.	Leaves	7.8-23.8
Grindelia	<i>Grindelia oregana</i> A. Grey	Aerial parts	14.0-26.0
Lavender cotton	<i>Santolina chamaecyparissus</i> L.	Seeds	3.6-15.0
Pteronia	<i>Pteronia incana</i> DC	Aerial parts	10.3
Tansy (blue)	<i>Tanacetum annuum</i> L.	Aerial parts of flowering plant	1.1-13.8
Field wormwood	<i>Artemisia campestris</i>	Wood	11.2
Jambu flower	<i>Acmella oleracea</i>	Flowers	11.8
Sudanese frankincense	<i>Boswellia sacra</i> (a-pinene CT)	Gum resin	20.7
Hemp	<i>Cannabis sativa</i> L.	Flowering tops	21.2-31.1
Juniperberry	<i>Juniperus communis</i> L	Berries	22.0
Rosemary ( $\beta$ -Myrcene CT)	<i>Rosmarinus officinalis</i> L.	Aerial parts	19.5-52.1
Wild thyme	<i>Thymus serpyllum</i>	Flowering herb	39.1
Hop	<i>Humulus lupulus</i> L	Inflorescence	25.4
Bay "West Indian"	<i>Pimenta racemosa</i> var. <i>racemosa</i> (Miller) J. Moore	Leaves	6.4-25.0
Bay "Anise"	<i>Pimenta racemosa</i> var. <i>racemosa</i> (Miller) J. Moore	Leaves	12.8
Myrtle (honey)	<i>Melaleuca teretifolia</i> Endl.	Leaves	10.9
Pine (white)	<i>Pinus strobus</i> L.	Needles (leaves) and branches	4.7-13.1
African bluegrass	<i>Cymbopogon validus</i> Stapf	Leaves	15.4-20.2
Lemongrass (West India)	<i>Andropogon citratus</i> DC	Leaves	5.6-19.2
Cape May	<i>Coleonema album</i> (Thunb.) Bartl. & J.C. Wendl.	Leaves and stem	43.8
Pepper (Sichuan)	<i>Zanthoxylum piperitum</i> DC	Fruits	16.4

**Table S3.** Eucalyptol (1,8-cineole) in the essential oil constituents of its natural sources (>10%).

Common name	Botanic name	Oil source	Eucalyptol (%)
Lanyana	<i>Artemisia afra</i> von Jacquin	Leaves and stems	19.1
Rambiazana	<i>Helichrysum gymnocephalum</i> Humbert	Leaves	47.4
Sage (African wild)	<i>Tarchonanthes camphoratus</i> L.	Leaves and flowers	15.5
Southernwood	<i>Artemisia abrotanum</i> L.	Aerial parts	18.6
Wormwood	<i>Artemisia annua</i> L.	Flowering plant	14.7
Saro	<i>Cinnamosma fragrans</i> Baill.	Leaves	46.0–53.0
Basil (holy)	<i>Ocimum tenuiflorum</i> L.	Leaves	12.6–16.5
Hyssop	<i>Hyssopus officinalis</i> L. var. <i>decumbens</i> Briq.	Aerial parts	12.3–14.9
Lavandin	<i>Lavandin Abrialis</i>	Flowering tops	6.0–11.0
Lavandin	<i>Lavandin Grosso</i>	Flowering tops	5.2–10.2
Lavender (Spanish)	<i>Lavandula stoechas</i> L. ssp. <i>stoechas</i>	Flowering tops	3.6–14.5
Lavender (spike)	<i>Lavandula latifolia</i> Medic.	Flowering tops	27.2–43.1
Marjoram (Spanish)	<i>Thymus mastichina</i> L. ssp. <i>mastichina</i>	Aerial parts of flowering plant	45.1–58.6
Rosemary (Borneol)	<i>Rosmarinus officinalis</i> L.	Aerial parts	20
Rosemary (Bornyl acetate CT)	<i>Rosmarinus officinalis</i> L.	Aerial parts	6.8–13.6
Rosemary (Camphor CT)	<i>Rosmarinus officinalis</i> L.	Aerial parts	17–22.5
Rosemary (1,8-Cineole CT)	<i>Rosmarinus officinalis</i> L.	Aerial parts	39.0–57.7
Rosemary ( $\alpha$ -Pinene CT)	<i>Rosmarinus officinalis</i> L.	Aerial parts	15.0–25.1
Sage (Dalmatian)	<i>Salvia officinalis</i> L.	Leaves	1.8–21.7
Sage (Greek)	<i>Salvia fruticosa</i> Mill.	Leaves	59.0
Sage (Spanish)	<i>Salvia lavandulifolia</i> Vahl.	Flowering tops	12.0–40.3
Sage (white)	<i>Salvia apiana</i> Jeps.	Leaves	68.4
Ho leaf (Chinese)	<i>Cinnamomum camphora</i> L.	Leaves	50.0
Ho leaf (Madagascan)	<i>Cinnamomum camphora</i> L.	Leaves	56.7–63.7
Laurel or Bay leaf	<i>Laurus nobilis</i> L.	freshly picked leaves	38.1–43.5
Sugandha	<i>Cinnamomum cecidodaphne</i> Meisn.	Fruits	13.1
Boldo	<i>Peumus boldus</i> Molina	Dried leaves	21.1
Cajuput	<i>Melaleuca cajuputi</i> Powell	Leaves and twigs	41.1–70.8
Eucalyptus	<i>Eucalyptus camaldulensis</i> (cineole CT)	Leaves	46.9–83.7
Eucalyptus	<i>Eucalyptus globulus</i>	Leaves	65.4–83.9
Eucalyptus	<i>Eucalyptus maidenii</i>	Leaves	76.8
Eucalyptus	<i>Eucalyptus plenissima</i>	Leaves	85.0–95.0
Eucalyptus	<i>Eucalyptus polybractea</i>	Leaves	88.7–91.9
Eucalyptus	<i>Eucalyptus radiata</i>	Leaves	60.4–64.5
Eucalyptus	<i>Eucalyptus smithii</i>	Leaves	77.5
Eucalyptus	<i>Eucalyptus macarthurii</i> H. Deane & Maiden	Leaves	28.9–29.0

Eucalyptus	<i>Eucalyptus polybractea</i> R. T. Baker	Leaves	16.1
Fragonia	<i>Agonis fragrans</i> J.R.Wheeler & N.G.Marchant	Leaves	31.0-33.0
Myrtle	<i>Myrtus communis</i> L.	Leaves	18.9-37.5
Niaouli	<i>Melaleuca quinquenervia</i> Cav.	Leaves	55.0-65.0
Rosalina	<i>Melaleuca ericifolia</i> Smith	Leaves	18.0-26.0
White kunzea	<i>Kunzea ambigua</i> (Sm.) Druce	Leaves	14.8
Damiana	<i>Turnera diffusa</i> Willd. var. <i>aphrodisiaca</i> Urb.	Leaves	11.4
Chaste tree	<i>Vitex agnus castus</i> L.	Leaves	15.6-35.2
Chaste tree	<i>Vitex agnus castus</i> L.	Seeds	8.4-23.3
Oregano (Mexican)	<i>Lippia berlandieri</i>	Dried aerial parts of flowering plant	1.8-14.0
Cardamon	<i>Elettaria cardamomum</i> L.	Seeds	26.5-44.6%
Cardamon (black)	<i>Amomum subulatum</i> Roxb.	Seeds	61.3
Galangal (greater)	<i>Alpinia galanga</i> L.	Rhizomes	30.2-33.6
Galangal (lesser)	<i>Alpinia officinarum</i> Hance	Rhizomes	49.6
Sanna	<i>Hedychium spicatum</i> Sm.	Rhizomes	44.3
Zedoary Indian (hydrodistilled)	<i>Curcuma zedoaria</i> Roscoe	Rhizomes	15.9

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**Table S4.**  $\beta$ - caryophyllene in the essential oil constituents of its natural sources (>10%).

Common name	Botanic name	Oil source	$\beta$ - caryophyllene (%)
Ylang-ylang	<i>Cananga odorata</i>	Flowers	11.2
Cananga	<i>Cananga odorata</i> (Lam.)	Flowers	38.2
Mugwort	<i>Artemisia vulgaris</i> L.	Aerial parts	10.6
Hemp	<i>Cannabis sativa</i> L.	Flowering tops	13.7-19.4
Piri-piri	<i>Cyperus articulatus</i> L.	Rhizomes	4.6–13.7
Camphor	<i>Dryobalanops aromatica</i> Gaertn	Woods	18.1
Fenugreek	<i>Trigonella foenum-graecum</i> L.	Seeds	14.6
Copaiba	<i>Copaifera langsdorfii</i>	Balsam from wood	53.3
Blackcurrant	<i>Ribes nigrum</i> L.	Flower buds	9.0-14.0
Savory	<i>Satureia montana</i> L.	Dried aerial parts	0-13.6
Thyme	<i>Thymus serpyllum</i>	Aerial parts	6.0–11.2
Melissa	<i>Melissa officinalis</i> L.	Aerial parts	0.3-19.1
Catnip	<i>Nepeta cataria</i> L.	Aerial parts	6.0-24.6
Basil	<i>Ocimum americanum</i> L.	Leaves	4.3-10.0
Cangerana	<i>Cabralea cangerana</i> Saldanha	Woods	28.6
Myrtle	<i>Myrica gale</i> L.	Leaves	11.0
Clove	<i>Syzygium aromaticum</i> (L.) Merrill et L.M. Perry	Flower buds and stems	0.6-12.4%
Pine	<i>Pinus nigra</i> J. F. X Arnold	needles leave	5.3–11.8
Pepper	<i>Piper nigrum</i> L.	Fruits	9.4–30.9
Fern	<i>Comptonia peregrina</i> (L.) J. M. Coult.	Leaves	24.5
Inula	<i>Pilocarpus microphyllus</i>	Flowering tops	23.9-40.6
Lantana	<i>Lantana camara</i> L.	Flowering tops	12.0