Tiare Flowers Extract

Free from toxicity, glycerine enables to solubilize many vegetal actives. This extract, with its smooth touch and its sensual fragrance, combines the nourishing properties of glycerine and Tiare Tahiti, for multiple cosmetic purposes.

**Properties**

1. Foaming & Washing
2. Emollient & Softening
3. Tonifying & Stimulating

**Composition**

**Highlight of the saponosides by TLC**

1. Preparation of the mixture: 10g Tiare + 200g EtOH 70%.
2. Builtin for 10 min.
3. Evaporate to dryness on a rotary evaporator.
4. Dissolve with 10μl EtOH 70%.
Plate: Si 60
Solvents: Chloroform, MeOH, H₂O (65/35/5)
Depositions: 10μm on 2cm
Detection: H₂SO₄ (50%) in EtOH and heating at 100°C.

**Main Flavonoids**

**Using Recommendations**

- Face and body care products (moisturizing creams, body milks, lotions, make-up removers...) : 3 to 10%
- Sun and after-sun products (milks, creams...) : 1 to 5%
- Hygiene products (shampoos, shower gels, soaps...) : 0.5 to 2%
- Lotions and tonics : 1 to 3%

Tiare, used in the traditional Polynesian pharmacopoeia, is free from toxicity in the limits of our current knowledge and of the recommended cosmetic uses.
Vegetal Extracts

**Technical Information**

**Vegetal Extracts**

**Chemical characteristics**
- **pH**: 4 - 9
- **Extraction ratio**: 20%
- **Extraction solvent**: Water/Glycerin (70/30)
- **Preservative**: Phenoxyethanol

**Packaging**
- 5 / 25 kg: PE-HD jerrycan

**Bacteriological characteristics**
- **Aerobic bacteria**: <100 cfu/g
- **Moulds - Yeasts**: <100 cfu/g

**Physical characteristics**
- **Aspect, 25°C**: Liquid
- **Odour**: Characteristic, soft, suave and lightly jasmine
- **Colour**: Brown
- **Specific gravity, 20°C**: 1.060 - 1.090
- **Refractive index, 20°C**: 1.360 - 1.390
- **Solubility in water**: Soluble
- **Solubility in oils**: Insoluble
- **Solubility in ethanol**: Soluble

**Storage**
- Store in close container.
- Store at room temperature (20 - 25°C).
- Keep away from light and humidity.
- **Stability**: 24 months before opening in the recommended storage conditions.

**Tiare Flowers Extract**

**PSC Reference**: EXTGLYTIA
**INCI Name**: Aqua, Glycerin, Gardenia taitensis flower extract, Phenoxyethanol.
**CTFA Name**: Water, Glycerin, Gardenia taitensis flower extract, Phenoxyethanol.

**Customs Code**: 1302198000

**Chemical Reference**
- **CAS Number**: 7732-18-5, 231-791-2
- **EINECS Number**: 999999-99-4, 310-127-6
- **Refractive Index**: 1.360, 1.390
- **Specific Gravity**: 1.060 - 1.090
- **Solubility**: Water - Soluble, Oils - Insoluble, Ethanol - Soluble

**Physical Characteristics**

**Chemical Information**

**Packaging**
- 5 / 25 kg: PE-HD jerrycan

**Stability**
- 24 months before opening in the recommended storage conditions.

**Regulatory Information**
Botanical Information

**Botanical Name:**
Gardenia taitensis

**Family:**
Rubiaceae

**Morphological Type:**
Shrub

**Geographic Area:**
French Polynesia (South Pacific)

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**Tiare, Vahine’s beauty secret...**

«Tiare» means «flower» in Tahitian and «maohi tiara» means «tiare flower». The Tiare flower with its sweet fragrance and beautiful white star-like petals is the emblem of Tahiti and its islands. Its jasmine perfume brings exoticism, while its sweetness gives relief and delicacy. Stitched into the hair, behind the ear, worn as necklaces or crowns, these flowers are the daily adornment of the vahines. Tiare necklaces are made to be offered in order to welcome people. It is worn on the ear following a specific area code: on the right ear, it indicates that the person is single, and on the left ear (heart side), it indicates that the heart of that person is already taken. More than an ornamental plant, its use for many everyday aches and pains makes it a medicinal plant from generation to generation, which has many curative virtues, treatment of migraines or against inflammation when drunk as herbal tea. Finally, vahines use it to make the famous Monoi de Tahiti, and the Umuhei, love potion of the Marquesas women.

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**Pacifique Sud Products**

- **Monoi de Tahiti Tiare Milk**
- **Tiare Flower Extract**
- **Tiare Floral Water**
The Gardenia tahitensis is a nubby shrub with brittle branches, up to 6 meters high with a trunk of 10cm in diameter, or on the opposite, can be a miniaturized in a 20cm high bonsai. The bark is smooth and clear. The foliage is beautiful: the leaves are opposite and obovale. On adult shrubs, they can measure up to 10-15cm long and 6-8cm wide. They are dark green colored on the side exposed to light, and light green on the other side. The leaves are shiny and smooth. This native species flowers throughout the year, but especially from September to April. Very fragrant flowers appear alone in upper leaf axils and are of a snowy white. They consist of 5 to 8 petals fused at their bases in star and form a narrow tube that can be green or yellow. Corolla is attached to the green calyx on top of the ovary. The number of yellow stamens is always the number of petals. The flowers are always sterile.

**BOTANICAL DESCRIPTION**

**CULTIVATION**

The Tiare Tahiti is an endemic plant from French Polynesia, which does not produce seeds or very exceptionally and therefore depends on men to reproduce. Coral lands are its favorite place. It is planted in dark soil, and we add coral fragments to its roots to help growth. The Tiare Tahiti flowers all year long, but mainly from September to April, giving a yield of about 2-10 flowers per day. Fresh flowers are collected in the morning from 5am at bud stage, ready to blossom. They are then wrapped in leaves carefully to retain its freshness and fragrance for several days.
olfactory description

The Tiare flower has a very pleasant complex spicy bouquet, mainly with honey, chocolate and cinnamon, along with green notes.
The abundance of dihydro-coniferyl alcohol esters is one of the specificities of the Tiare flower. They are the ones giving it a heavy vanilla scent with floral notes.

chemical composition

With the study of the volatile composition of the Tiare hexanic concrete, we identified more than 200 components. The main ones are:

- **Hydrocarbons**
  - alpha and beta-pinene
  - Limonene
  - Terpinene...

- **Alcohols**
  - Borneol
  - Linalool (4,4%)
  - dihydroconiferyl alcohol (1,1%)...

- **Carbonyls**
  - Phenylacetaldehyde
  - Vanillin...

- **Phenols**
  - 2-methoxy-4-vinylphenol (0,23%)
  - Isoeugenol (0,2%)...

- **Acids**
  - Salicylic acid...

- **Esters**
  - Benzyl benzoate (6,2%)
  - Benzyl salicylate (2,55%)
  - Dihydroconiferyl acetate (12,2%)
  - Dihydroconiferyl benzoate (0,25%)
  - Dihydroconiferyl salicylate (0,1%)
  - Ethyl hexanoate (0,55%)
  - Geranyl benzoate (2,1%)
  - (Z)-3-hexenyl benzoate (2,2%)
  - (Z)-3-hexenyl salicylate (0,73%)
  - Hexyl benzoate (0,5%)
  - Methyl salicylate (2,5%)
  - 2-phenylethyl benzoate (6,26%)
  - 2-phenylethyl salicylate (2,2%)...

- **Lactones**
  - gamma-decalactone
  - jasmolactone
  - Scopoline...

- **Nitrogen derivates**
  - Phenylacetoxime (1,37%)
  - 2-phenylaminoethane (0,89%)...

- **Flavonoids**
  - 6-methoxy-3-O-methylkaemferol...

To be noted that despite its complexity, the Tiare flower has no toxicity.
USES

Ornament:
Tiare flowers are traditionally stitched into the hair, behind the ear or worn as necklaces or crowns.

Traditional use:
- Tiare flower treats everyday aches and pains, used in infusions, decoctions, maceration, or to soothe insect bites and headaches.
- It is a fundamental ingredient of Monoi de Tahiti, known for its moisturizing and softening properties.
- Tiare flowers are also used in the «Ra’au ira» bath, in which we add the Tiare flowers to heal small wounds of the skin and protect from the cold (traditional Tahitian remedy)

Cosmetic use:
Tiare flowers have antiseptic properties due to the richness of essential oils, as well as calming and purifying properties due to salicylic acid and derivatives salicylates.
It is particularly used in sensitive skin care products, and in Monoi de Tahiti, which is suitable for all types of cosmetic formulations.
Finally, the Tiare flower exhaled a seductive fragrance that is a highly refined source of inspiration for perfumers.