

TECHNICAL DATA SHEET

Product Name: Kakadu Plum Infused Oil

INCI Name: Terminalia Ferdinandiana (Kakadu Plum) Extract, Helianthus Annuus Seed Oil, Prunus Amygdalus Dulcis Oil, Tocopherol

CAS Numbers: 1176234-54-0, 8001-21-6, 8007-69-0, 59-02-9

Chemical Classification: Mixture

Functional Category: Skin Conditioning Agent ~ Occlusive, Skin Conditioning Agent ~ Emollient, Antioxidant

Description: Kakadu Plum Infused Oil is obtained through cold maceration of the dried fruit extract of Terminalia Ferdinandiana (Kakadu plum). The carrier oil blend consists of sunflower and sweet almond oils, with vitamin E as a preservative. The sunflower oil is cold-pressed and linoleic-type, meaning it has a high content of essential linoleic acid and a lower proportion of oleic acid. Kakadu plum is known as one of the richest natural sources of vitamin C, making this oil highly beneficial for skin prone to oxidative stress and loss of elasticity. The presence of polyphenols contributes to strong antioxidant protection and helps prevent cellular damage caused by free radicals. These components also have anti-inflammatory properties, making the oil suitable for soothing irritation and redness. Thanks to its regenerative properties, it improves skin tone and supports natural collagen synthesis, resulting in a more even and refreshed complexion. Kakadu Plum Infused Oil is widely used in cosmetic formulations, including serums, creams, and facial oil treatments. Its potent antioxidant properties make it an ideal ingredient for formulations aimed at protecting the skin from pollution and UV damage. Additionally, it enhances hydration and can be combined with other botanical oils and active ingredients to maximize its effects on dry, sensitive, or mature skin.

Bioactive Compounds: Kakadu Plum Infused Oil contains a rich complex of bioactive compounds that contribute to its antioxidant, regenerative, and anti-inflammatory properties. Key components include polyphenols, with ellagic and gallic acids playing a significant role in protecting the skin from oxidative stress. These act as powerful antioxidants, helping neutralize free radicals and preventing cellular damage caused by UV radiation and environmental pollutants.

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Although pure vitamin C is not oil-soluble, it is present in stable derivatives that contribute to skin brightening, reduction of hyperpigmentation, and enhanced collagen synthesis. Its synergy with polyphenols amplifies the skin's defense against premature aging, promoting resilience and elasticity. The presence of tocopherol further supports the oil's antioxidant function by protecting cell membranes from lipid peroxidation and aiding in moisture retention. Flavonoids derived from Kakadu plum provide a soothing effect, reducing inflammation and making the oil suitable for sensitive and irritated skin. Fatty acids from the base oils, such as oleic and linoleic acids, improve the absorption of bioactive compounds and help strengthen the skin's hydrolipid barrier. Their presence enhances skin softness and smoothness, reducing transepidermal water loss and restoring the epidermis's natural protective function.

Benefits:

- Provides strong antioxidant protection due to its high polyphenol content.
- Improves skin tone and supports collagen synthesis, contributing to firmness and elasticity.
- Helps reduce redness and irritation due to the anti-inflammatory properties of ellagic and gallic acids.
- Shields the skin from free radical damage and UV radiation.
- Enhances hydration and helps maintain a healthy hydrolipidic balance.
- Evens out the complexion and reduces the appearance of hyperpigmentation.
- Absorbs quickly and does not leave a greasy residue, making it suitable for various skin types.

Application Method: Kakadu Plum Infused Oil is used in various cosmetic formulations depending on the product type and desired benefits. In moisturizing creams and lotions designed for protection against oxidative stress, it is typically added at a concentration of 2–10%, balancing antioxidant properties with a lightweight texture. In anti-aging serums and facial treatments, its concentration can be higher, ranging from 10–30%, to leverage its ability to support collagen synthesis and brighten the complexion. In oil serums and blends for dry and sensitive skin, it can make up up to 50% of the formulation, especially when combined with other botanical oils rich in unsaturated fatty acids. In soaps and emulsion-based facial cleansers, it is used at a concentration of up to 5% to maintain stability during formulation. Due to its fast-absorbing nature, it integrates well into lightweight formulations such as fluid emulsions and oil serums,

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where it contributes to hydration and skin protection without leaving a greasy feel.

Animal Testing: Not tested on animals.

GMO: Non-GMO.

Vegan: Does not contain animal-derived components.



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