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TECHNICAL DATA SHEET

Product Name: Vanillyl Butyl Ether

INCI Name: Vanillyl Butyl Ether

CAS: 82654-98-6

Synonyms: 4-(Butoxymethyl)-2-methoxyphenol, Butyl vanillyl ether, 4-(butoxymethyl)-2-methoxy-Phenol

Chemical Classification: Phenol, Ether

Functional Category: Skin Conditioning Agent – Miscellaneous

IUPAC Name: 4-(butoxymethyl)-2-methoxyphenol

Raw Material Origin: China

Description: Vanillyl butyl ether (VBE) is an organic compound consisting of vanillin and a butyl ether group. The butyl ether group (CH3-(CH2)3-O-) is attached to the phenolic part of vanillin (C6H3-(OH)-(CH3)) via an oxygen atom and is responsible for its warming effect. VBE is used in cosmetics and personal care products to create a sensation of warmth on the skin. At room temperature, it is a liquid, colorless to light yellow, with a mild pleasant smell similar to vanilla. It is insoluble in water but soluble in organic solvents such as ethanol, ethyl acetate, and various oils. It can also dissolve in propylene glycol and similar substances. The melting point can vary but generally ranges from 55°C to 65°C. It is generally stable under normal storage conditions. However, it can degrade over time if exposed to extreme temperatures, light, or air. VBE is compatible with a wide range of ingredients in cosmetic and personal care products.

Benefits:

- ***Warming Effect:*** After application to the skin, it creates a warming effect. The effect intensifies within the first five minutes and can last up to two hours. The sensation of warmth can be pleasant and soothing for users and is often used in products like massage oils, creams, and lotions.
- ***Improves Blood Circulation:*** Speeds up microcirculation and stimulates the

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metabolism of subcutaneous fat tissue.

• ***Analgesic Effect:*** Possesses mild analgesic effects, making it a valuable ingredient in products designed for relieving muscle and joint pain.

• ***Tolerance:*** VBE is structurally similar to natural warming agents such as capsaicin found in chili peppers but has the advantage of being less irritating to the skin than capsaicin.

• ***Solubility:*** VBE is soluble in most solvents typically used in personal care formulations. Its good solubility makes it a versatile ingredient that can be easily incorporated into various cosmetic products.

• ***Pleasant Scent:*** VBE usually has a mild vanilla scent, which can enhance the overall sensory experience of a cosmetic product.

• ***Stability:*** It is a stable ingredient, meaning it retains its efficacy and sensory properties over time, ensuring product quality and consistency.

Usage: Typically used in formulations at concentrations of 0.2 to 1%. It is added to the finished product in the "cool down" phase, when the temperature drops below 40°C.

Application: Thanks to its ability to create a sensation of warmth on the skin, Vanillyl Butyl Ether can be used in pain relief products such as balms or gels for sports massages. It is often used in products for treating cellulite. When used in combination with other ingredients, it can help increase the absorption of active ingredients, which can enhance the efficacy of skincare products.

Animal Testing: The substance is not tested on animals

GMO: Non-GMO

Vegan: Does not contain components of animal origin