Squalane

Fermentation-derived emollient for skin care, hair care and color cosmetics

Document reference	Revision	Issue date
KA-TDS-SQUALANE	01	20 November 2026

Product overview

Squalane is a clear, colorless oily liquid used as a lightweight emollient. It adds slip and a smooth after-feel to emulsions and oil-based products. Viablife identifies its squalane as fermentation-derived.

Product identity

Parameter	Details
INCI name	Squalane
CAS number	111-01-3
Supplier grade code	VBL-NP-083
Manufacturer on COA	Hangzhou Viablife Biotech Co., Ltd.
Manufacturing site on COA	Jiangxi Viablife Biopharmaceutical Co., Ltd.
Assay specification	≥98.0%

Applications and suggested use levels

Application	Viablife guidance
Basic moisturizers	1–3% in creams and lotions
Body lotions and bath oils	3–8%
Hair care	1–5%
Color cosmetics	Use as an emollient in the oil phase. Select the level for the product format.

Formulation guidance

In emulsions, add to the oil phase. For water-free oils and balms, blend with the other oil-phase ingredients until uniform. Select the level for the desired skin feel and verify stability in the finished formula.

Technical specifications

Limits from Viablife COA HZ-ZJ-2026-04-001, dated 02 April 2026. The certificate lists in-house standards.

Property	Specification	Unit
Appearance	Colorless clear oily liquid	
Assay	≥98.0	%
Relative density	0.804–0.820 (20 °C)	
Refractive index	1.450–1.460	
Acidity	≤0.5	mg KOH/g
Saponification value	≤3	mg KOH/g
Iodine value	≤2	g/100 g
Residue on ignition	≤0.5	%
Heavy metals	≤20	ppm
Total number of colonies	≤100	CFU/g
Mold and yeast	≤50	CFU/g
Heat-resistant E. coli	Must not be detected	
Staphylococcus aureus	Must not be detected	
Pseudomonas aeruginosa	Must not be detected	

Storage and packaging

Confirm storage conditions, pack size and shelf life for grade VBL-NP-083 with the supplier.

Technical references

Product identity, applications and use levels: Viablife Squalane.

Oil-phase incorporation: Sugarcane Squalane TDS, Handymade (general formulation reference for squalane).