

TECHNICAL DATA SHEET (TDS)
CITRONELLA ESSENTIAL OIL
(Cymbopogon Winterianus Oil)

1. PRODUCT IDENTIFICATION & OVERVIEW

Product Name	Citronella Oil
INCI Name	Cymbopogon Nardus (Citronella) Oil
Botanical Name	Cymbopogon winterianus Jowitt ex Bor (or Cymbopogon nardus (L.) Rendle)
CAS Number	8000-29-1 / 91771-61-8
Description	100% Pure and Natural essential oil obtained by steam distillation of the aerial parts (grass) of Cymbopogon winterianus / nardus, of the Poaceae family.

2. TECHNICAL & SENSORY PROPERTIES

Appearance	Clear, mobile liquid
Colour	Pale yellow to light brownish-yellow
Odour	Characteristic fresh, grassy, powerful, and sweet-citrusy aroma with a rose-like nuance
Relative Density (20/20°C)	0.880 – 0.905
Refractive Index (20°C)	1.466 – 1.475
Optical Rotation (20°C)	-5° to 0°
Citronellal Content	35% – 50%
Geraniol Content	20% – 35%
Citronellol Content	10% – 18%

3. APPLICATIONS & USES

Insect Repellents	Widely recognized and utilized as a premier active natural ingredient in outdoor insect repellent sprays, candles, and lotions.
Fragrance & Perfumery	Used in soaps, detergents, household cleaners, sprays, and low-cost perfumery for its fresh, diffusive citrus scent.
Cosmetics & Personal Care	Incorporated into body washes, shampoos, and deodorants for its deodorizing and refreshing properties.
Aromatherapy & Wellness	Valued for its uplifting, cleansing, and purifying properties in ambient diffusion and wellness

	blends.
Industrial Applications	Important natural source for the isolation of fragrance chemicals such as citronellal and geraniol.

4. STORAGE, PACKAGING & SAFETY

Storage Conditions	Store in cool, dry place in tightly sealed containers, protected from heat and light.
Packaging	1 kg and 5 kg aluminium containers; 25 kg HDPE containers.
Shelf Life	36 months when stored properly in unopened original containers.
Safety & Handling	Avoid contact with eyes and prolonged direct skin contact. Handle in well-ventilated areas. Wear protective gloves.

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