

TECHNICAL DATA SHEET (TDS)
GAC FRUIT OIL
(Momordica Cochinchinensis Oil)

1. PRODUCT IDENTIFICATION & OVERVIEW

Product Name	Gac Fruit Oil
INCI Name	Momordica Cochinchinensis (Gac) Fruit Oil
Botanical Name	Momordica cochinchinensis Spreng.
CAS Number	100684-25-1 / 91770-55-9
Description	100% Pure and Natural carrier/vegetable oil obtained by cold pressing or extraction of the arils of Gac fruit, of the Cucurbitaceae family.

2. TECHNICAL & SENSORY PROPERTIES

Appearance	Clear to slightly viscous liquid
Colour	Deep reddish-orange to dark red
Odour	Characteristic mild, pleasant, nutty, or fruity vegetable aroma
Relative Density (20/20°C)	0.910 – 0.930
Refractive Index (20°C)	1.465 – 1.478
Saponification Value	180 – 200 mg KOH/g
Beta-Carotene Content	Rich natural source (High concentration)
Lycopene Content	High natural concentration

3. APPLICATIONS & USES

Cosmetics & Skincare	Incorporated into anti-aging serums, facial oils, sun care products, and nourishing lotions for its rich antioxidant profile.
Nutraceuticals & Dietary	Used as a nutrient-dense dietary supplement ingredient known for eye health and immune support properties.
Pharmaceutical & Topical Care	Utilized in formulations designed for skin healing, recovery, and soothing dry or damaged skin tissue.
Hair Care	Added to hair oils and masks to provide deep conditioning, moisture, and protection to dull or brittle hair.

4. STORAGE, PACKAGING & SAFETY

Storage Conditions	Store in cool, dry place in tightly sealed containers, protected from heat, light, and oxidation (refrigeration recommended after opening).
Packaging	1 kg and 5 kg aluminium containers; 25 kg HDPE containers.
Shelf Life	24 months when stored properly in unopened original containers.
Safety & Handling	Avoid contact with eyes. For external/manufacturing use only. May stain fabrics and surfaces due to high natural carotenoid pigmentation.

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