

### TOMATO SEED CO2 TOTAL EXTRACT

*Suitable for beauty and personal care applications.*

**INCI:** Solanum Lycopersicum (Tomato) Seed Extract

**Extraction Method:** CO2 Supercritical Extraction

**Processing Method:** Molecular Distillation

**Shelf Life:** 2 Years

**Raw Material Origin:** China

#### Background:

The ancient origins of the garden tomato date back to the Aztecs in South and Central Americas. The tomato, *Solanum lycopersicum*, is a member of the *Solanaceae* (nightshade) plant family. Although tomatoes are traditionally consumed as a vegetable, they are formally classified as a berry. Europeans discovered them in the Americas during the early middle ages and brought them back to Europe with them. Some regions of Europe were initially concerned that the tomato was poisonous due to its acidic composition and its presence in the nightshade family. Over time, the mistaken fears over the tomato were appeased, and the tomato has become essential throughout the world for its culinary flavor and nutritive benefits.

The average tomato typically contains over 150 seeds. Each tiny seed is rich in lycopene, Vitamin E and essential fatty acids. Tomato Seed CO2 Total Extract is obtained by pressurized supercritical fluid extraction using carbon dioxide as the solvent. This method effectively extracts all the beneficial lipophilic constituents present in the tomato seeds. Once the extraction process is complete, the CO2 dissipates back into a gaseous state, and the extract then undergoes molecular distillation to remove unwanted components. The CO2 supercritical extraction process exposes the extract to far less heat during production than even a cold pressed oil, leading to a reduced risk of oxidation and a much more prolonged and stable shelf.

#### Tomato Seed CO2 Total Extract is Well Suited for the Following Personal Care Applications:

- Skin Care
- Hair Care
- Nail Care
- Cosmetics
- Aromatherapy

**Recommended Usage:** 1-100%



#### Properties:

- Outstanding Lipid-Based Source of Lycopene (89.2 mg/kg)
- Excellent Source of Vitamin E (950 mg/kg min)
- Contains Over 55% Essential Fatty Acids (Omega-3 Linolenic Acid and Omega-6 Linoleic Acid)
- Similar Consistency to Expeller Pressed Tomato Seed Oil
- Stable Shelf Life
- Medium Viscosity
- Rapid Absorption
- Fluid Consistency at Room Temperature
- Smooth, Desirable Texture
- Mild, Sweet Aroma
- Clear, Reddish-Orange Hue
- See Spec Sheet for Composition Data

#### Uses:

**Our premium quality Tomato Seed CO2 Total Extract is similar in texture and consistency to that of expeller pressed Tomato Seed Oil and can be used within similar applications. However, it offers a longer shelf life and other benefits to that of the expeller pressed oil.** With its impressive composition of lycopene, essential fatty acids and Vitamin E, Praan Naturals Tomato Seed CO2 Total Extract is a nourishing, moisturizing extract that is worthy of inclusion in the finest personal care applications. Suitable for all skin types, it is especially well suited for inclusion in formulations intended to soothe, protect and support delicate or aging skin. Tomato Seed CO2 Total Extract absorbs rapidly, leaving the skin looking and feeling more youthful and hydrated.

**Standard Packaging:** Available in carboys.



For more information on Praan Naturals premium quality Tomato Seed CO2 Total Extract and other certified organic and conventional CO2 Supercritical Extracts, visit [PRAANNaturals.com](http://PRAANNaturals.com) or call our Customer Care department at (800) 340-0080 or (203) 702-2500.

Natural Sourcing, LLC • 341 Christian Street, Oxford, CT 06478

Phone: (203) 702-2500 • Toll Free: (800) 340-0080 • Fax: (203) 702-2501 • Web: [www.PRAANNaturals.com](http://www.PRAANNaturals.com) • Email: [info@PRAANNaturals.com](mailto:info@PRAANNaturals.com)

Praan Naturals® and From Nature With Love® are Registered Trademarks of Natural Sourcing, LLC

**PROUDLY SERVING YOU FOR OVER 20 YEARS**