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CRUDE DE-GUMMED CANOLA OIL – PRODUCT SPECIFICATIONS



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Raw Material Specifications

Product declaration & description: black, hulled canola seeds (*Brassica napus* L.) that follow with the Australian Oilseeds Federation (AOF) Standard Reference CSO¹, are crushed through a physical, chemical-free means.

Characteristics: The canola seed is crushed through a chemical-free oil extraction process, producing crude, de-gummed canola oil that is a clear yellow, fresh liquid with a vegetable oil aroma.

Accreditations: The minimum quality standards conform to those described in the Australian Oilseed Federation (AOF) Standards¹.

Nutritional Composition Properties

As manufactured/received

| Quality Parameter | Value Range |
|----------------------------------|---------------|
| Moisture, volatiles & impurities | 0.05 – 0.30 % |
| Energy | 35.0 MJ/kg |
| Saturated fatty acid | 5.0 – 7.0 % |
| Monounsaturated fatty acid | 60.0 – 64.0 % |
| Polyunsaturated fatty acid | 26.0 – 30.0 % |
| Palmitic acid | 1.5 – 6.0 % |
| Linoleic acid (C18:2) | 11.0 – 23.0 % |
| Linolenic acid (C18:3) | 5.0 – 13.0 % |
| Erucic acid | ≤ 2.0 % |
| Saponification value | 168 – 181 |
| Iodine value (Wijis) | 94 – 120 |
| Free Fatty Acids | ≤ 1.0 % |
| Peroxide value (mEq/kg) | ≤ 10 |
| Unsaponifiable matter (g/kg) | ≤ 20 |
| Chlorophyll | n/a |
| Phosphorus | ≤ 200 ppm |
| Sulfur | n/a |

Physical Properties

As manufactured/received

| Quality Parameter | Value Range |
|------------------------------|------------------------------------|
| Relative density (25°C) | 0.910 – 0.916 (g/cm ³) |
| Viscosity | 38 – 42 (mPa-s) |
| Refractive Index (25°C) | 1.470 – 1.472 |
| Colour (AOCS Lovibond units) | 7R 70Y (25.4 mm) |
| Flash point | ≥150°C |
| Smoke point | 220°C – 240°C |
| Foots | Clear at 65°C |

Transport & shipping:

- Bulk, covered tanker trucks
 - Flexi containers
 - Sealed intermediate bulk containers (IBCs)
- All transport means above comply with the Australian Code for the Transport of Dangerous Goods by Road & Rail².

Storage:

To be stored in a dry, enclosed environment, protected from moisture, direct sunlight and pests.

Shelf life:

Approximately 6 months from the date of delivery.

References:

1. Australian Oilseeds Federation, 2023. Australian Oilseeds Federation quality standards & typical analysis 2023/24 - Section 1, Issue 22.
2. Australian Code for the Transport of Dangerous Goods by Road & Rail, 2016. Edition 7.4, Commonwealth of Australia

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