

# OZONE NATURALS

Doc No: ON/FG/ SPEC /005A

Effective From: 01/01/2021

## PRODUCT NAME:- CUMIN OIL

<b>BOTANICAL NAME</b>	<i>CUMINUM CYMINUM</i>
<b>PLANT OF ORIGIN</b>	INDIA
<b>PART OF THE PLANT USED</b>	CUMINUM CYMINUM SEED
<b>CAS</b>	84775-51-9, 8014-13-9
<b>EINECS</b>	283-881-6
<b>FEMA</b>	2343
<b>EXTRACTION METHOD</b>	Super critical fluid extraction by liquid CO <sub>2</sub>

## PHYSICAL PROPERTIES

S.NO.	PARAMETER	SPECIFICATION	METHOD USED
1.	Description	Light Yellowish Green to dark yellowish Green color Liquid	Visually
2.	Solubility	Insoluble in water & miscible with oil and fat-soluble organic solvent.	Visually
3.	Odour	Characteristic, fresh, spicy cumin, herbaceous, aromatic with a light cake like note	By Odour
4.	Taste	Characteristic cumin taste	By Sensory

## CHEMICAL PROPERTIES

S.NO.	PARAMETER	SPECIFICATION	METHOD USED
1.	Moisture % (w/w)	NMT – 5.0%	USP<921> Method 1
2.	Specific Gravity (@ 25°C)	0.9100 to 1.1000	USP<841> Method 1
3.	Refractive Index (@ 25°C)	1.4940 to 1.5160	USP<831>
4.	Optical rotation (@ 25°C)	+1° to +8°	USP <781>
5.	Volatile Oil Content % (v/w)	NLT – 85.0 %	AOAC 962.17
6.	Cuminaldehyde Content (%)	NLT – 20.0%	In-house Method

**Storage Conditions:-** Keep it away from heat & direct sunlight; store in cool & dry place, shake well before use. Do not handle with bare hands.

**Declaration:-** Free from the GMO, Solvent traces, Pesticide, heavy metals, NOTS & other additive.

**Packing Size:-** Food grade HDPE 1 kg, 5kg, 10kg, 25kg, 50kg, 190kg & 1000kg IBC, Aluminum 1kg, 5kg, 10kg, 25kg.

**Storage & Shelf Life:-** 18 months from the date of manufacture when stored ambient conditions in closed containers.

**Application:-** Raw material for the industrial use, Indented use for the manufacturer of flavors.