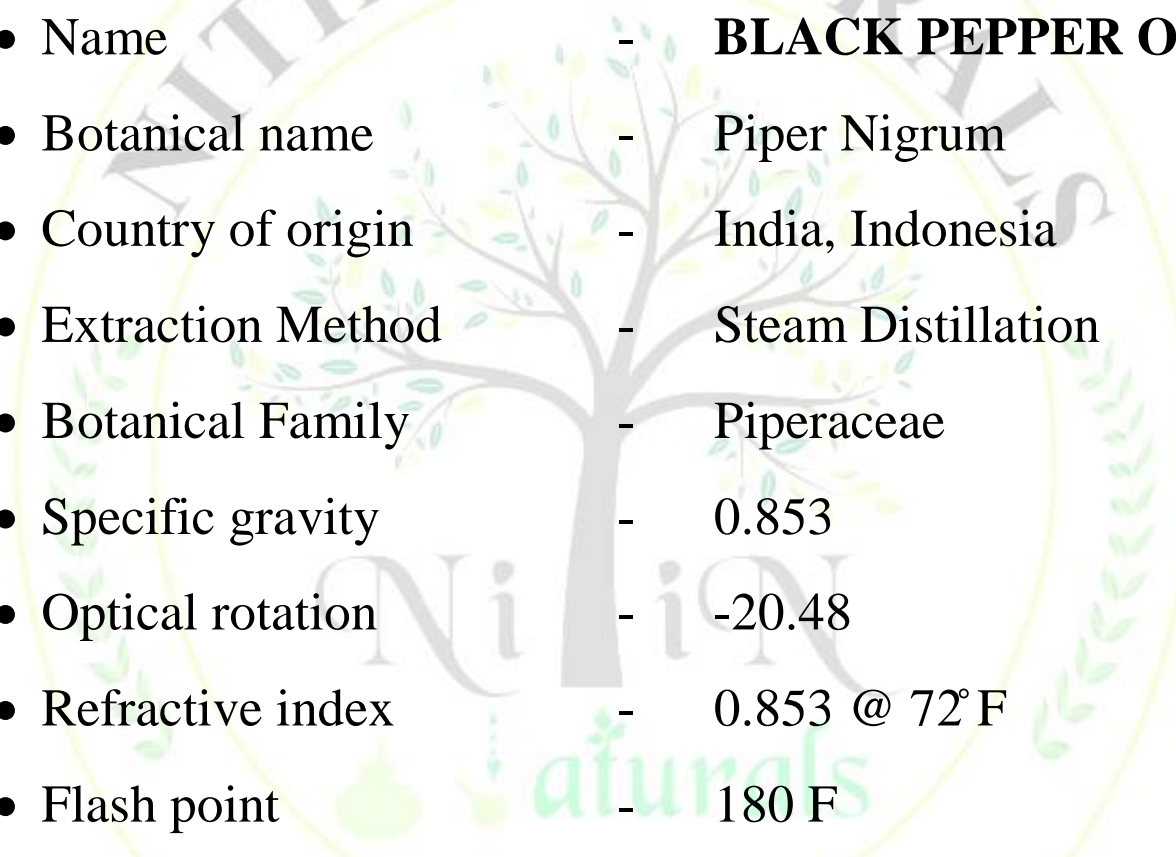


CHEMICAL ANALYSIS

(BASED ON GC/MS REPORT)

{ MAJOR CONSTITUENTS / TOP COMPONENTS * }



• Name	-	BLACK PEPPER OIL
• Botanical name	-	Piper Nigrum
• Country of origin	-	India, Indonesia
• Extraction Method	-	Steam Distillation
• Botanical Family	-	Piperaceae
• Specific gravity	-	0.853
• Optical rotation	-	-20.48
• Refractive index	-	0.853 @ 72° F
• Flash point	-	180 F
• Monoterpenols	-	0.25% - 0.29%
• Monoterpenes	-	57.5% - 58.8%
• Sesquiterpenes	-	35.3% - 37.5%
• Limonene	-	16.1% - 17.85%

* This report pertains only to the sample taken by the lot and may differ due to raw material and climate variation.