

Natural Herbal Pvt. Ltd.

Technical Data Sheet

Zanthoxylum Oil

Product Description:	The volatile oil is obtained by steam distillation from the dried fruits of <i>Zanthoxylum armatum</i> commonly called as Nepali pepper.
Country of Origin:	Nepal
Botanical Name:	Zanthoxylum armatum
Extract Method:	Steam Distillation
Plant Part Used:	Fruits

Specifications	
CAS NO.	91770 – 90 – 0
EINECS NO.	294-877-9
FEMA NO.	NA
NAFTA NO.	NA
Appearance:	Fluid liquid
Color:	Colorless to pale yellow
Odor:	Spicy, refreshing & pleasant
Refractive Index at 25°C:	1.467-1.481
Optical Rotation At	5.03-9.67
25°C:	
Specific Gravity At 25°C:	0.8153-0.9050
Flash Point:	53 °C
Quality:	100% Pure & Natural
Solubility:	Soluble in alcohol and fixed oils but insoluble in water.
Acid Value:	0.5-4.5
Ester Value:	17.95-35
Ester Value after	110-224
Acetylation	

Chemical Data by GCMS		
Compounds Name:	Percentage:	
linalool	42 - 48 %	
d-limonene	20 - 25 %	
β-phellandrene	10 - 15 %	
β-myrcene	4 - 6 %	
γ-terpinolene	1 - 2 %	
(E)-methyl cinnamate	6 - 8 %	
trans- linalol oxide	1 - 2 %	

Expiration Date

Shelf Life: 5+ years under good storage conditions.

Store in a well-filled, airtight container at temperature below 18°C. Avoid direct sunlight & heat.