



## Technical Data Sheet

### Calamus Oil

<b>Product Description:</b>	The volatile oil is obtained by steam distillation from the dried rhizomes of <i>Acorus calamus</i> , commonly called as Sweet flag.
<b>Country of Origin:</b>	Nepal
<b>Botanical Name:</b>	<i>Acorus calamus</i> L.
<b>Extract Method:</b>	Steam Distillation
<b>Plant Part Used:</b>	Rhizomes

Specifications	
<b>CAS NO.</b>	8015-79-0
<b>EINECS NO.</b>	283-869-0
<b>FEMA NO.</b>	8016-63-5
<b>NAFTA NO.</b>	NA
<b>Appearance:</b>	Fluid to slight viscous liquid
<b>Color:</b>	Yellow to medium brown
<b>Odor:</b>	Floral herbaceous, pleasant, earthy & spicy
<b>Refractive Index at 25°C:</b>	1.556
<b>Optical Rotation At 20°C:</b>	NA
<b>Specific Gravity At 25°C:</b>	1.0862
<b>Flash Point:</b>	74°C
<b>Quality:</b>	100% Pure & Natural
<b>Solubility:</b>	Soluble in alcohol and fixed oils but insoluble in water.
<b>Acid Value:</b>	1.2
<b>Ester Value:</b>	2.2
<b>Ester Value after Acetylation</b>	50.9

Chemical Data by GCMS	
<b>Compounds Name:</b>	<b>Percentage:</b>
<b>β-Asarone</b>	35 - 45 %
<b>Farnesol</b>	10 - 12 %
<b>[E, Z]-2,4-Decadienal</b>	12 - 14 %
<b>α-Asarone</b>	7 - 10 %
<b>Methyleugenol</b>	5 - 7 %
<b>Caryophyllene</b>	2 - 4 %

### 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.