



Essential Oil Exchange

Product: **12203**
Revision: **New**

Certificate of Analysis

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Product Name	Latin Binomial	Country of Origin	SKU	Shelf Life
Verbena Oil	Lippia citriodora	France	12203	2 Years
Quality	Extraction Method	Flash Point	Parts Used	
100% Pure & Natural	Steam Distilled	165 F	Leaf	

Analysis Value	Specification
COLOR : Pale yellow to amber	Pale yellow to amber
ODOR DESCRIPTON : Characteristic	Characteristic
Specific Gravity : 0.860	Conforms to standard
Refractive Index : 1.4805	Conforms to standard
Optical Rotation : -22.26	Conforms to standard
Alpha pinene + Alpha thujene : 1.15	Conforms to standard
Beta pinene : 0.14	Conforms to standard
Sabinene : 2.51	Conforms to standard
Myrcene : 0.47	Conforms to standard
Limonene : 18.74	Conforms to standard
Cineol 1-8 : 5.33	Conforms to standard
Cis beta ocimene : 0.22	Conforms to standard
Gamma terpinene : 0.13	Conforms to standard
Trans beta ocimene : 3.13	Conforms to standard
Paracymene : 0.07	Conforms to standard
Trans sabinene hydrate : 0.27	Conforms to standard
Citronellal : 0.29	Conforms to standard
Alpha copaene : 0.68	Conforms to standard
Beta bourbonene : 0.52	Conforms to standard
Linalool : 0.79	Conforms to standard
Alpha cedrene : 0.43	Conforms to standard
Beta caryophyllene : 5.11	Conforms to standard
Beta cedrene : 0.32	Conforms to standard



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Allo-aromadendrene : 0.71	Conforms to standard
Neral : 0.61	Conforms to standard
Alpha terpineol : 1.70	Conforms to standard
Germacrene D + Alpha zingiberene : 4.08	Conforms to standard
Geranial : 11.50	Conforms to standard
Beta curcumene : 1.55	Conforms to standard
Bicyclogemacrene + Geranyl acetate : 3.89	Conforms to standard
Ar-curcumene : 4.19	Conforms to standard
Nerol : 0.61	Conforms to standard
Geraniol : 1.55	Conforms to standard
Isocaryophyllene oxide : 0.43	Conforms to standard
Caryophyllene oxide : 2.89	Conforms to standard
Trans nerolidol : 0.75	Conforms to standard
Spathulenol : 1.81	Conforms to standard
Cadinol : 0.64	Conforms to standard

Information	Identification
FEMA No.	NA
CAS No.	8024-12-2
Health	Slightly Hazardous
Flammability	Will ignite if moderately heated
Reactivity	Stable and not reactive with water

Information	Fire, Explosion and Reactivity
Flash Point	165 F
Extinguishing Media	FOG-No / CO2 – Yes / FOAM – Yes / DRY – Yes
Stability	Stable
Fire Fighting	Cool containers exposed to fire with water
Hazardous Combustible Decomposition Products	Forms carbon monoxide and/or dioxide upon burning



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Information	Physical Data
Color and Odor	Pale yellow to amber liquid.
Vapor Pressure	NA
Water Solubility	Insoluble

Information	Protection Data
Respiratory	Avoid casual breathing
Ventilation	Local explosion proof exhaust recommended
Skin	Wear impermeable gloves
Eye	Goggles giving complete protection to eyes / eyewash bottle with clean water
Other	Do not eat, drink or smoke while handling

Information	Emergency First Aid
Inhalation	Seek fresh air
Eye Contact	Wash eyes immediately and abundantly with clean running water at low pressure
Skin Contact	Remove contaminated clothing / Wash skin with soap and water
Ingestion	Rinse mouth / Drink water or milk to dilute / Consult doctor immediately

Information	Handling and Disposal
Handling and Shipping	Store in tightly sealed container in a cool, dry place away from sources of heat
Waste Disposal	Follow any federal, state or local laws / Do not dispose of in sewer

Disclaimer: The test results listed are accurate to the best of our knowledge based upon reputable labs and their testing methods. These results should not be used as a final determination for use in a finished product. According to GMP regulations, the specifications, test methods, and test results may be independently qualified by the purchasing party. The appropriate use of this product is the sole responsibility of the user and/or the purchasing party.