

Crawford MarketTM

Exquisite Candle Line

Certification of essential oil quality

CERTIFICATE OF ANALYSIS Clove Bud Essential Oil

June 20, 2009

Common Name	<u>Clove Bud Essential Oil</u> , clove bud, clove oil, clove essential oil
Botanical Name	Syzygium aromaticum
Parts Used	Buds
Method of Extraction	Steam distilled
Color and Appearance @22C:	Yellow-Brown transparent liquid
Odor:	Sweet Rich Spicy Fruity
Refractive Index @ 72°F:	1.5327
Optical Rotation:	-0.26
Flash Point:	Above 200F
Specific Gravity @ 72°F:	1.0349
Density:	8.856
Solubility:	Insoluble in water, soluble in alcohol and oils
Storage:	Harmful if swallowed, avoid contact with eyes
Safety:	None Tested

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CERTIFICATE OF ANALYSIS Citronella Essential Oil

October 20, 2009

Common Name	<u>Citronella Essential Oil</u> , citronella, citronella oil
Botanical Name	Cymbopogon nardus
Parts Used	Grass
Method of Extraction	Steam distilled
Lot #	CIT0501
Einics #	289-753-6
FEMA #	2308
Nafta #	3301.29.6000
Color and Appearance @22C:	Pale Yellow To Yellow Liquid
Odor:	Strong citrus-type odor.
Refractive Index @ 72°F:	1.473
Optical Rotation:	-0.15
Flash Point:	Above 170F
Specific Gravity @ 72°F:	0.8857
Density:	7.351
Solubility:	Insoluble in water, soluble in alcohol and oils
Storage:	Harmful if swallowed, avoid contact with eyes
Safety:	None Tested

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CERTIFICATE OF ANALYSIS Lemongrass Oil

July 12, 2010

Properties
Biological source
from *Cymbopogon citratus* D.C.

Quality
Natural

Total impurities
~75% citral

Refractive index
 $n_{20/D}$ 1.49

$n_{20/D}$ 2.487(lit.)

bp
224 °C(lit.)