



**ZAHRA ROSEWATER CO.
PRODUCT SPECIFICATION**

<i>Product:</i>	Rose Essential Oil (1st Oil)
<i>Botanical name:</i>	Rosa Damascene
<i>INCI Name:</i>	Rosa Damascena Flower Oil
<i>Constituents/ plant part:</i>	Flower
<i>Country of Origin:</i>	Iran
<i>Extraction Method:</i>	Hydro-distillation of rose petals
<i>Seasonal Harvesting:</i>	During May and June
<i>Appearance:</i>	Liquid at 18° C (fluid, transparent liquid above congealing point)
<i>Colour:</i>	Pale yellow
<i>Odour:</i>	Floral ,strong and sweet rosaceous character

Physio-chemical properties

<i>Specific gravity (25°C):</i>	0.845 to 0.863
<i>Refractive index(25°C):</i>	1.453 to 1.464
<i>Optical rotation (25°C):</i>	-3.3 to - 5.9
<i>Freezing point:</i>	10.5 to 17.0
<i>Acid number:</i>	2.75
<i>Ester number</i>	14.1
<i>Ester number after acetylation:</i>	221.3
<i>Explosion limits:</i>	Lower 82°C, upper 112°C
<i>Auto ignition temperature:</i>	458°C
<i>Purity:</i>	100% natural

<i>Composition (Gas Chromatography Mass Spectrometry)</i>	Citronellol(11 -24%), Geraniol(4-7.1%), Nonadecene(7.3- 11.7%), Heneicosane (8.2-12.2), Methyl Eugenol (0.575- 0.875%), Geranyl Acetate (2.8- 4.2%),
--	--

<i>Storage:</i>	Store product in full, tightly closed containers in a cool, dry place away from heat and light
<i>Stability:</i>	At least 2 years

Declaration

I declare that the information given is believed to be correct as of the date: May 2024

Name: Ali Akbar Rahimi
Position: Director Manager