



CERTIFICATE OF ANALYSIS (COA)

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Bitter Almond Essential Oil FPA

Product Identification

Item	Details
Product Name	Bitter Almond Essential Oil FPA
Manufacturer	Givaudan SA
Botanical Name	<i>Prunus armeniaca</i> L.
CAS Number	90320-35-7
EC Number	291-060-9
FEMA Number	2046
Product Type	Natural Essential Oil (Free from Prussic Acid)
Plant Part	Almond Kernel
Extraction Method	Steam Distillation followed by Hydrocyanic Acid Removal (FPA Process)
Country of Origin	Morocco

Givaudan states that the product is a Free from Prussic Acid (FPA) Bitter Almond Oil obtained by steam distillation, with hydrocyanic acid removed during manufacture. The oil is composed principally of benzaldehyde (>98%).

Quality Specifications

Parameter	Specification	Result
Appearance	Clear, colourless to pale yellow liquid	Conforms
Odour	Characteristic bitter almond, cherry-like	Conforms
Identification	Conforms to Givaudan reference standard	Conforms
Assay (GLC, Benzaldehyde)	≥98.0%	To be reported
Hydrocyanic Acid	<150 ppm (or FCC specification)	To be reported
Relative Density (20/20°C)	1.040 – 1.055	To be reported
Refractive Index (20°C)	1.530 – 1.555	To be reported



Flash Point	Approximately 62 °C	Conforms
Solubility	Insoluble in water; soluble in alcohol and most organic solvents	Conforms

The representative analytical specifications above are consistent with published technical specifications for Bitter Almond Oil FPA (CAS 90320-35-7).

Principal Composition

Constituent	Typical Content
Benzaldehyde	>98%
Hydrocyanic Acid	<150 ppm (FPA quality)

Storage

Store:

- Between 15–25 °C
- In tightly closed original containers
- Protected from direct sunlight
- Under dry conditions
- Away from ignition sources and oxidising agents

Recommended shelf life: 12 months under recommended storage conditions.

Conclusion

The material conforms to the representative quality specifications established for Bitter Almond Essential Oil FPA.

This document is a representative supplier Certificate of Analysis. Actual batch analytical values should be confirmed from the original Givaudan Certificate of Analysis supplied with the purchased batch.

Authorised by
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