



CERTIFICATE OF ANALYSIS (COA)

Supplier: Aromology

Product Name: Musk Ketone

Chemical Name: 4-tert-Butyl-2,6-dimethyl-3,5-dinitroacetophenone

CAS Number: 81-14-1

EC Number: 201-328-9

FEMA Number: 2726

Product Type: Aroma Chemical (Nitro Musk)

Country of Origin: China

1. Product Information

Parameter	Details
Product Name	Musk Ketone
Chemical Name	4-tert-Butyl-2,6-dimethyl-3,5-dinitroacetophenone
CAS Number	81-14-1
EC Number	201-328-9
FEMA Number	2726
Product Type	Aroma Chemical (Nitro Musk)
Intended Use	Perfumery, Cosmetics, Aromatics (subject to applicable regulations)
Supplier	Aromology

2. Physical & Organoleptic Specifications

Test	Specification	Result
Appearance	Crystalline powder	Conforms
Colour	Pale yellow to yellow	Conforms
Odour	Sweet, powdery, warm, musky, animalic	Conforms
Solubility	Insoluble in water; soluble in ethanol and perfumery solvents	Conforms

3. Typical Analytical Characteristics

Parameter	Typical Range	Result
Assay (GC/HPLC)	≥98.0%	Conforms
Melting Point	134–137 °C	Conforms
Moisture Content	≤0.50%	Conforms
Ash Content	≤0.10%	Conforms

4. Typical Composition



Constituent	Typical Range (%)
Musk Ketone	≥98.0
Related Organic Impurities	≤2.0

Minor analytical variations may occur between production batches while remaining within specification.

5. Quality Assessment

Quality Parameter	Result
Identity Verified	PASS
Organoleptic Evaluation	PASS
Assay	PASS
Appearance	PASS
Suitable for Perfumery Use	PASS

6. Storage Conditions

Parameter	Recommendation
Storage Temperature	Store below 25 °C
Light Exposure	Protect from direct sunlight
Container	Keep tightly sealed in the original container
Moisture	Store in a cool, dry place
Shelf Life	24 months under recommended storage conditions

7. Statement of Conformity

Aromology certifies that this batch of Musk Ketone conforms to internal quality specifications for aroma chemicals and has been evaluated for identity, purity, physical characteristics and organoleptic quality.

This material is intended for professional perfumery applications and should be used in accordance with applicable regulatory requirements and IFRA recommendations for the intended market.



8. Authorisation

Approved By	Department
Fozia Khot	Director
Aromology Trading LLC Dubai, UAE	

9. Supplier Details

AROMOLOGY

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Document Information

Parameter	Details
Document	Certificate of Analysis (COA)
Status	APPROVED
Date of Manufacture	18 August 2025
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