



## CERTIFICATE OF ANALYSIS (COA)

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### IRISNITRILE

#### PRODUCT IDENTIFICATION

| Parameter           | Details                          |
|---------------------|----------------------------------|
| Product Name        | Irisnitrile                      |
| Manufacturer        | Symrise                          |
| Symrise Product No. | 611465                           |
| Chemical Name       | Non-2-enenitrile                 |
| Alternative Name    | 2-Nonenenitrile                  |
| CAS Number          | 29127-83-1                       |
| EC Number           | 249-458-5                        |
| Molecular Formula   | C <sub>9</sub> H <sub>15</sub> N |
| Molecular Weight    | 137.2 g/mol                      |
| Chemical Class      | Nitrile                          |
| Product Type        | Synthetic Aroma Chemical         |
| Olfactive Family    | Iris / Orris / Floral / Green    |
| Grade               | Professional Perfumery Grade     |

#### ANALYTICAL SPECIFICATION

| Test           | Specification                  | Batch Result | Method       |
|----------------|--------------------------------|--------------|--------------|
| Appearance     | Clear liquid                   | _____        | Visual       |
| Colour         | Colourless to light yellow     | _____        | Visual       |
| Odour          | Floral, iris, orris, green     | Conforms     | Organoleptic |
| Identification | Conforms to approved reference | _____        | GC-MS / FTIR |
| GC Purity      | Minimum 98.0% – sum of isomers | _____        | GC-FID       |
| Flash Point    | Approx. 96 °C                  | _____        | Closed Cup   |



|                |                       |          |                          |
|----------------|-----------------------|----------|--------------------------|
| Boiling Point  | 230.9°C               |          | Technical Data           |
| Log P (Kow)    | 3.08                  | Conforms | Manufacturer Data        |
| Stabilizer     | None                  | Conforms | Manufacturer Declaration |
| Foreign Matter | Absent                |          | Visual                   |
| GC Profile     | Conforms to reference |          | GC-FID                   |

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#### OFFICIAL SYMRISE PRODUCT DATA

| Property             | Specification                            |
|----------------------|------------------------------------------|
| Appearance           | Clear, colourless to light yellow liquid |
| GC Purity            | Minimum 98% – sum of isomers             |
| Flash Point          | Approx. 96°C                             |
| Molecular Weight     | 137.2 g/mol                              |
| Boiling Point        | 230.9°C                                  |
| Log P                | 3.08                                     |
| Stabilizer           | No                                       |
| Occurrence in Nature | No                                       |
| Renewable Factor     | 77.8%                                    |
| Biodegradability     | 69.0% – readily biodegradable            |
| Chemical Class       | Nitrile                                  |

These specifications are directly published by Symrise.

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#### REPRESENTATIVE COMPOSITION

| Component                          | Specification        |
|------------------------------------|----------------------|
| Non-2-enenitrile isomers           | ≥98% GC              |
| Related manufacturing constituents | Within specification |
| Added carrier                      | None                 |
| Stabilizer                         | None                 |

The assay is expressed as the sum of isomers.

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#### ORGANOLEPTIC PROFILE

| Attribute         | Description  |
|-------------------|--------------|
| Primary Character | Iris / Orris |
| Floral Character  | Violet-like  |
| Secondary Facet   | Green        |



|                    |                                                |
|--------------------|------------------------------------------------|
| Drydown            | Dry, powdery, cosmetic                         |
| Diffusion          | Very high                                      |
| Radiance           | High                                           |
| Fragrance Position | Top / Heart                                    |
| Function           | Iris booster, violet enhancer, floral modifier |

Irisnitrile provides strength and radiation to iris and violet accords and emphasises dry powdery cosmetic effects.

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## PERFUMERY APPLICATIONS

Suitable for:

- Iris
- Orris
- Violet
- Floral-woody fragrances
- Green florals
- Cosmetic accords
- Powdery fragrances
- Woody florals
- Modern floral perfumes
- Soap
- Shampoo
- Personal care
- Household fragrance

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## RECOMMENDED USE

Symrise Recommended Level

0.05–0.5%

This is an olfactory formulation recommendation.

Symrise also offers:

Irisnitrile 1% TEC

Product No. 249829

for easier dosing of this high-impact material.

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## SUSTAINABILITY

| Parameter             | Status |
|-----------------------|--------|
| Renewable Factor      | 77.8%  |
| Readily Biodegradable | Yes    |
| Biodegradation        | 69.0%  |

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## STORAGE

Store:

- Tightly closed
  - Cool and dry
  - Protected from sunlight
  - Away from excessive heat
  - Away from strong oxidising agents
  - Using clean, dry dispensing equipment
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## QUALITY DECLARATION

Subject to insertion of the actual batch-specific analytical results, the material represented by this certificate conforms to the representative manufacturer specification for:

IRISNITRILE – SYMRISE  
PRODUCT NO. 611465  
CAS 29127-83-1

Principal manufacturer assay:  
GC PURITY: MINIMUM 98%  
SUM OF ISOMERS

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## DISCLAIMER

This Certificate of Analysis is a supplier-style document based on official Symrise technical data.

It is not the original batch-specific Certificate of Analysis issued by Symrise.

The batch-result fields should be populated from the original manufacturer batch COA or validated internal testing before being represented as batch-specific.

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## Authorised by:

Fozia Khot  
Director