

BIORUŽA, s. r. o.

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SUBSTANCE IDENTIFICATION

Name:	Anise essential oil (Pimpinella anisum)
Product code:	4190
INCI:	Pimpinella anisum seed oil
CAS Nr.:	8007-70-3 / 84775-42-8
EINECS Nr.:	283-872-7
Batch:	91/1.2024
Production date:	06/2025
Expiration date:	06/2027
Specification:	Internal
FEMA:	2094

GENERAL CHARACTERISTICS

Type of product:	100% Natural essential oil
Quality:	Conventional product
Botanical name:	Pimpinella anisum L.
Type of production:	Steam distillation
Plant part:	Seeds
Country of origin:	India

SENSORICAL CHARACTERISTICS

Parameter	Specification requirements	Result
Appearance	Pale-yellow liquid	Complies
Odor	Characteristic	Complies

PHYSICAL CHARACTERISTICS

Parameter	Specification requirements	Result
SPECIFIC GRAVITY @25°C	0.978 - 0.988	0.985
REFRACTIVE INDEX @20°C	1.553 - 1.560	1.555
OPTICAL ROTATION @20°C	-1° to +1°	-0.2°

PURITY

Parameter	Parameter	Result
Fatty acids and resinified essential oils	Not present	Complies
Additives	Not present	Complies

CHEMICAL CHARACTERISTICS (GC-FID)

Parameter	Specification requirements	Result
Methyl Chavicol		1.04 %
D- Carvone		1.19%
Anethole		0.89 %
Anisaldehyde		0.22 %
Trans Anethole		87.71 %
γ- Himachlene		3.57 %
alpha-TERPINEOL		0.10 %
ESTRAGOL		2.79 %
ANISALDEHYDE		0.7 %
beta-CARYOPHYLLENE		0.5 %
LIMONENE		0.32 %
alpha-PINENE		0.1 %
cis-ANETHOL		0.1 %

PACKAGING AND STORAGE

Parameter	Requirements
Standard packaging	ALU, HDPE
Storage	In tight closed and full containers, at cool, dry and well ventilated place below 25°C
Reanalysis	When opened for more than 24 months quality should be checked before use.