

Foreverest Resources Ltd

Menthone Glycerin Acetal

98%

Menthone Glycerin Acetal (D,L-Menthone 1,2-glycerol ketal), also known as menthone glycerol ketal, is a clear, colourless viscous liquid with a slight minty aroma that is almost imperceptible on the tongue but delivers a lingering, pleasant cooling effect. Available in both racemic and levorotatory specifications—with the levorotatory form predominant in commercial offerings—it is synthesised as a cooling agent through the acid-catalysed dehydration and condensation of menthone with glycerol.

Substance Identification

Synonyms	D,L-Menthone 1,2-glycerol ketal SYMRISE FRESCOLAT MGA
CAS	N/A
EINECS	

FEMA	N/A
HS.CODE	
Molecular Formula	C13H24O3
Molecular Weight	228.332

Application & Uses

- Menthone glycerol ketal is commonly applied in personal care products such as shampoos, shower gels, shaving products, toothpastes, mouthwashes, conditioners, body washes, soaps, lotions, creams, after-shave products, sunscreens, and antiperspirants.
- It serves as a cooling stabiliser for mint fragrances and is used in the formulation of daily chemicals, tobacco products, cooling fragrances, food & beverages (chewing gum, confectionery, chocolates, dairy products, baked goods, beverages, alcoholic drinks), and pharmaceuticals (topical analgesics, cough syrups, lozenges, nasal sprays, [OTC medicines](#)).

Features & Benefits

- Compared to [menthyl lactate](#), menthone glycerol ketal delivers a milder cooling sensation whilst serving as both an immediate and long-lasting cooling agent. Non-irritating and menthol-free, it provides cooling effects akin to traditional menthol, with optimal pH range of 6-12 and easy incorporation as a colourless liquid that is non-irritating on cold skin application.
- As a sensory modulator, its weak minty odour preserves fragrance integrity while offering refreshing, long-lasting cooling (up to 25 minutes) suitable for broad applicability across personal care, food & beverages, pharmaceuticals, and consumer goods.

Sales Specification

ITEM	VALUE	TEST METHOD & UNIT
Odor	A slight minty aroma that tastes almost non-existent but is accompanied by a lingering, pleasant cooling effect.	
Purity, Sum of isomers	98 min	%
Absolute Density	1.025 to 1.033	@25°C, g/cm ³
Refractive Index	1.4700 to 1.4780	@20°C
Acid value	1.0 max	mgKOH/g

Package

- Customized according to customer requirements.

GHS Hazard Statements

H-Code	H315/318/412
P-Code	P263/280/302+352/305+315+338/332+313/337+313
Response	R38/41/52/53
Storage	
Disposal	

Storage

- Environmental & Temperature Control:
 - Store in a cool, dry, well-ventilated area, and protect from light.
 - Avoid high temperatures to maintain product stability and prevent decomposition or volatilisation.
 - Keep in a cool, well-ventilated place.
- Container Management & Prevention:
 - Ensure containers are tightly closed to prevent volatilisation and external contamination, and are clearly labelled.
 - Ground all equipment containing the material to prevent static build-up.
- Hazard Isolation:
 - Keep storage areas away from heat, sparks, open flames, and all sources of ignition.
 - This combustible liquid should be stored in a separate safety storage cabinet or room.
 - Keep away from incompatible materials to prevent hazardous reactions.
- Safe Handling & Inspection:
 - Handle carefully, and stack stably.
 - After prolonged storage, always check quality before use.
- Compliance & Emergency Preparedness:
 - Strictly comply with all safety regulations, particularly those pertaining to combustible liquid storage.
 - Ensure emergency plans are in place for unforeseen circumstances.

Remark

The above information is believed to be accurate and presents the best explanation currently available to us. We assume no liability resulting from above content. The technical standards are formulated and revised by customers' requirement and us, if there are any changes, the latest specification will be executed and confirmed in the contract.