

Foreverest Resources Ltd

Cooling Agents WS-23

99%

WS-23 (2-Isopropyl-N,2,3-trimethylbutanamide) is known for its clean and long-lasting cooling effect (cooling strength 0.75) . Unlike menthol, WS-23 provides a cooling sensation without the accompanying minty flavor or odor, making it versatile for various applications.

Substance Identification

Synonyms	2-Isopropyl-N,2,3-trimethylbutanamide
CAS	N/A
EINECS	
FEMA	N/A

HS.CODE

Molecular Formula

C10H21NO

Molecular Weight

171.28

Application & Uses

- WS-23 is widely used in various products, including oral care items (toothpaste, mouthwash), cosmetics (creams, lotions), food and beverages, pharmaceuticals, and personal care products (shampoos, conditioners).

Features & Benefits

- WS-23 is stable, making it suitable for formulations that require a consistent and prolonged cooling effect.
- It has a mild, refreshing mint flavor that is strong and impactful, and the cooling feeling disappears quickly (lasting about 7 minutes).
- The part that produces a cooling sensation is slightly thin and requires a large amount of material.
- It is generally recognized as safe (GRAS) for use in food, cosmetic, and personal care products when used within recommended concentrations.

Recommended usage level

WS-23

	min	max
Fog-fluid	450 ppm	2250 ppm
Beverage	3 ppm	24 ppm
Toothpaste	300 ppm	3000 ppm
Mouthwash	15 ppm	600 ppm
Hard candy	30 ppm	150 ppm
Chewing gum	1500 ppm	9000 ppm

Sales Specification

ITEM	VALUE	TEST METHOD & UNIT
Cooling Strength	0.75	@Menthol was set as 1 as a reference
Cooling Longevity	8	minutes

ITEM	VALUE	TEST METHOD & UNIT
Cooling Strength	1.5	@Menthol was set as 1 as a reference
Cooling Longevity	6	minutes

ITEM	VALUE	TEST METHOD & UNIT
Cooling Strength	4	@Menthol was set as 1 as a reference
Cooling Longevity	10	minutes

ITEM	VALUE	TEST METHOD & UNIT
Cooling Strength	4.5	@Menthol was set as 1 as a reference
Cooling Longevity	12	minutes

ITEM	VALUE	TEST METHOD & UNIT
Cooling Strength	3.5	@Menthol was set as 1 as a reference
Cooling Longevity	36	minutes

Package

- Customizable packaging details.

GHS Hazard Statements

Storage

- Flammable materials should be stored in a separate safety storage cabinet or room
- Ground all equipment containing material
- Keep away from heat
- Keep away from sources of ignition
- Keep container tightly closed
- Keep in a cool, well-ventilated place

Relation Products

- [Cooling Agents WS-3](#)
- [Cooling Agent WS-5](#)
- [Cooling Agent WS-10](#)
- [Cooling Agents WS-12](#)
- [Menthol](#)

Relation Articles

- [Overview of Cooling Agents](#)

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.