

Foreverest Resources Ltd

Cooling Agents WS-12

WS-12

WS-12 ((1R,2S,5R)-N-(4-methoxyphenyl)-5-methyl-2-(propan-2-yl)cyclohexane-1-carboxamide) is a synthetic compound designed to deliver a cooling sensation across various products. It offers the strong cooling effect, rated at strength 3.5. This effect lasts up to 36 minutes, providing ample time for a refreshing cooling experience.

Substance Identification

Synonyms	(1R,2S,5R)-N-(4-methoxyphenyl)-5-methyl-2-(propan-2-yl)cyclohexane-1-carboxamide
CAS	N/A
EINECS	

FEMA	N/A
HS.CODE	
Molecular Formula	C18H27NO2
Molecular Weight	289.4

Application & Uses

- Due to the powerful cooling effect, WS-12 is an excellent choice for enhance the refreshing quality of food and drinks.
- It is used in various products, including oral care items (toothpaste, mouthwash), cosmetics (creams, lotions), pharmaceuticals, and personal care products (shampoos, conditioners).

Features & Benefits

- WS-12 provides the longest lasting cooling effect
- It is known for its strong and long-lasting cooling effect. It produces a cooling sensation without the minty odor or taste typically associated with menthol.
- It is more stable than menthol and other traditional cooling agents, making it suitable for formulations that require a consistent cooling effect over time.

Recommended usage level	WS-12	
	min	max
Fog-fluid	1500 ppm	30000 ppm
Beverage	10 ppm	100 ppm
Toothpaste	5000 ppm	40000 ppm
Mouthwash	500 ppm	10000 ppm

Hard candy
Chewing gum
Creams & Lotions

100 ppm
1500 ppm
50000 ppm

2000 ppm
30000 ppm
500000 ppm

Sales Specification

ITEM	VALUE	TEST METHOD & UNIT
Cooling Strength	3.5	@Menthol was set as 1 as a reference
Cooling Longevity	36	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	0.75	@Menthol was set as 1 as a reference
Cooling Longevity	8	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-23](#)
- [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.