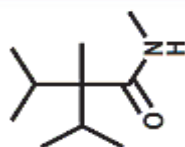




## Cooling Agent WS-23

### Structural Formula



Chemical Name: N,2,3-Trimethyl-2-isopropyl Butanamide

Trade Name: Cooling Agent WS-23

CAS 51115-67-4

No.: 256-974-4

EINEC 3804

Application: Cosmetic, food, beverage,  
medicine and tobacco industry

Packaging: in aluminium foiled bags

Filling Quantity: 1 kg/bag, 5 kg/bag and 20 kg/bag

Shelf life: up to 2 years, not opened

Storage conditions: dry and cool unopened  
avoid direct sunlight



## Product Specification Cooling Agent WS-23

Test	Specification	Batch No. 1309203
Appearance	white crystalline powder	conforms
Odor	mild cooling, slight menthol	conforms
<b>Identification</b>		
Molecular weight	171,28	
Molecular formular	C10H21NO	
<b>Properties</b>		
Purity	$\geq 99 \%$	conforms
Solubility	in Ethanol and organic solvents slightly soluble in water (7g/L) at 20 °C	
Melting point	60-63 °C	conforms
Acidity (KOH) [mg/kg]	$\leq 1$	conforms
Heavy metals (as Pb)	$\leq 10$ mg/kg	conforms
Arsenic (As)	$\leq 3$ mg/kg	conforms
Flash point	$> 100$ °C (tag closed cup)	



## Product Description

# Cooling Agent WS-23

### **Main properties in applications**

1. Continuous and long lasting cooling and refreshing effect, no hot, harsh and stinging sensation of Menthol and/or Peppermint
2. Heat- Resistance is good below 200 °C, don't reduce the cooling impact, suitable use in bakery and other high temperature processes
3. Cooling intensity remains in general for 15-30 minutes, with no burning pain compared with Menthol based products it is cooler
4. Low dosage 30-100 mg/kg has good cooling properties
5. Compatible with other flavors and also with other cooling agents.

### **Main uses**

#### **Cosmetic products**

toothpaste, oral products, air freshener, skin cream, shaving cream  
shampoo, sunscreen, shower gel

#### **Food products**

confectionary products, chocolate, dairy products, beer, distilled spirit,  
beverages and chewing gum.