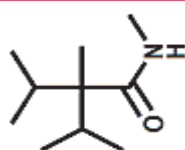




Cooling Agent WS-23

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
Identification		
Molecular weight	171,28	
Molecular formular	C10H21NO	
Properties		
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]	≤ 1	conforms
Heavy metals (as Pb)	≤ 10 mg/kg	conforms
Arsenic (As)	≤ 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.