

# **High Purity**

# **Kalama® Flavor and Fragrance Ingredients**

As a leading provider of high purity, nature identical aroma chemicals and the world's largest producer of benzaldehyde, Emerald is trusted for **consistency**, **quality**, **and expertise**. Our ingredients deliver the captivating appeal that plays a central role in **fine fragrance**, **personal care**, **home and air care**, **food**, and **beverages**.

Emerald serves our customers globally from operations in the U.S. and Europe, using **the highest standards for safety and quality,** including ISO 9001:2015, ISO 14001:2004, FCC, c-GMP, and FSSC 22000.



FLORAL



SPICY, AMBER, WARM



FRESH, GREEN, MARINE



FRUITY, CITRUS



WOODY, EARTHY, HERBAL



### **Floral**

### Delicate, sweet, luxurious

		CAS	Primary Notes	Fine Frag.	Personal Care	Home Care	Air Care	Food/Bev. F	Feed
Amyl Cinnamic Aldehyde •	K,W	122-40-7	Jasmine, rose, cocoa, fat	•	•	•	•		
C-9 Aldehyde •	W	124-19-6	Rose, flower-wax, aldehyde	•	•	•		•	
Florosol •	W	63500-71-0	Muguet, rose, cyclamen, lilac	•	•	•	•		
Florosol A ••	W	63500-71-0	Muguet, green, aldehyde, ozone	•	•				
Florosol S •	W	63500-71-0	Muguet, rose, cyclamen, lilac	•	•	•	•		
Hexyl Cinnamic Aldehyde • •	K,W	101-86-0	Jasmine, lily, green	•	•	•	•		
Laevo-Citronellol •	W	7540-51-4	Fresh, light, rose, sweet (mint-fre	ee) •					
Lilestralis Pure ●	W	80-54-6	Fresh, light, green, lily	•	•	•	•		
Ocimene PQ • • •	W	3338-55-4	Warm, floral, sweet, slightly herbaceous	•	•	•			



### Spicy

### $Alluring,\ comforting,\ sensual$

		CAS	Primary Notes	Fine Frag.	Personal Care	Home Care	Air Care	Food/Bev.	Feed
3-Phenyl Propanol ● ● ●	К	122-97-4	Balsamic, spicy, oriental; slight lilac, hyacinth, honey	•	•	•		•	
Cinnamic Alcohol • • •	К	104-54-1	Spicy, oriental, hyacinth-balsam	nic •	•	•	•	•	•
Cinnamic Aldehyde • •	К	104-55-2	Cinnamon, spicy, oriental	•	•	•	•	•	•
Cyprinal ● ●	W	101-39-3	Powerful warm, cinnamon, spic balsamic, floral	у,	•	•	•	•	
Cypriol ● ●	W	1504-55-8	Sweet, balsamic-floral, tenaciou oriental, slight styrax	IS •					





### Lively, refreshing, effervescent

		CAS	Primary Notes	Fine Frag.	Personal Care	Home Care	Air Care	Food/Bev.	Feed
Azuril • •	W	680-84-04-8, 216-90-43-7	Powerful citrus-ozone-linen	•	•	•			
C-6 Aldehyde • •	К	66-25-1	Fruity, slightly grassy	•	•			•	•
C-8 Aldehyde •	К	124-13-0	Citrus	•	•	•		•	
C-10 Aldehyde FCC ••	К	112-31-2	Fresh citrus, orange peel	•	•	•		•	•
C-12 Lauric Aldehyde • • •	W	112-54-9	Citrus, green, floral, aldehyde soap, wax	•	•	•	•		
Peach Lactone •	W	104-67-6	Fresh fruit, peach, creamy, fatty, apricot	•	•	•	•	•	



# Earthy

Lush, serene, natural

		CAS	Primary Notes	Fine Frag.	Personal Care	Home Care	Air Care Food/Bev. Fee
Osyrol® •	W	128-51-8	Sandalwood, floral	•	•	•	
Vetimoss® ●	W	41890-92-0	Outdoor, forest, damp wood, vegetation, potatoes	•	•	•	•

# Other Ingredients

		CAS	Primary Notes	Fine Frag.	Personal Care	Home Care	Air Care	Food/Bev.	Feed
<b>Benzyl Benzoate</b> Fixative, Solvent, Flavor, Pharmaceutical Application	К	120-51-1	Nearly Odorless	•	•		•	•	•
<b>Benzaldehyde</b> Fragrance/Flavor, Raw Material, Pharmaceutical Application	K,R	100-52-7	Almond, slight cherry	•	•			•	•
Benzyl Alcohol Coalescent, solvent, preservative, fixative	K,R	100-51-6	Aromatic	•	•		•	•	•

K - Produced in Kalama, WA, USA

R - Produced in Rotterdam, Netherlands

W - Produced in Widnes, UK

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