# **Perfumes and Flavours Technology Handbook**

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Perfumes & flavours with their products are part & parcel of our everyday life. The demand worldwide for perfumes is enormous & constantly on the increase. The perfume & flavour industry has become a major business. Mans search for substances which can produce new flavours & perfumes, substitute for expensive & or scarce ones, or augment & enhance existing desirable ones continuous a pace. The manufacture of perfume oils & flavouring compounds is an art & it means metering of the individual components in accordance with the formula, followed by blending for homogenization. But in all perfume & flavour house the oil formulas are among the best kept secrets & represent the knowhow. They play a major role in the success of the companies. Odors are also commonly called scents, which can refer to both pleasant and unpleasant odors. The terms fragrance and aroma are used primarily by the food and cosmetic industry to describe a pleasant odor, and are sometimes used to refer to perfumes. The odours are classified in various kinds such as floral, woody, rustic, balsamic, fruity, animal etc. There are numerous types of applications of perfumes in modern industrialized society such as perfumes used in soaps & detergents, paints, adhesives, air deodorants, cosmetics, toilet & beauty preparations, textiles, beverages, foods, medicines, and many more. The global flavour industry can be characterized as highly technical, specialized, and innovative. This industry is highly competitive and concentrated, compared to other product categories within the food and beverage market. The global flavours market is predicted to grow at a Compound Annual Growth Rate (CAGR) of 2% per annum.

The present book deals with the new techniques & manufacturing processes with formulae of different useful and demandable perfumes and flavours. This book will definitely help not only to perfumers & flavour chemists but to all upcoming entrepreneurs, scientists, technocrats etc.

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Benzoin, Sumatra (Resinoid)

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Cananga

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Clove Leaf

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Нор

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Litsea Cubeba

Lovage

Mace

Mandarin

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Olibanum (Resinoid)

Onion

Opopanax (Resinoid)

**Orange Bitter** 

Orange Flowers (Concrete, Absolute)

**Orange Sweet** 

Oregano

Orris

Osmanthus (Concrete, Absolute)

Palmarosa

Parsley

Parsnip

Patchouli

Pennyroyal

Pepper, Black Peppermint, Arvensis Peppermint, Piperita Perilla Peru Balsam Petitgrain Pimento Pine Pine Needle Rose (Concrete, Absolute) Rosemary Rosewood Rue Saffron Sage Sandalwood Sarsaparilla Sassafras Savin Savory Silver Fir Needle Spearmint Spike Lavender Spruce Storax (Resinoid) Tagetes Tamarind

### Tansy

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Acetaldehyde

Acetate C-8

Acetate C-9

Acetate C-10

Acetate C-11

Acetate C-12

Acetatepa

Acetic Glacial (Pure)

Acetophenone

Alcohol C-7

Alcohol C-8

Alcohol C-9

Alcohol C-10

Alcohol C-11 (Undecylenic)

Alcohol C-11 (Undecylic)

Alcohol C-12

Alcohol C-16

Aldehyde C-7

Aldehyde C-8

Aldehyde C-9

Aldehyde C-10

Aldehyde C-11 (Undecylenic)

Aldehyde C-11 (Undecylic)

Aldehyde C-12 (Lauric)

Aldehyde C-12 (Mna)

Aldehyde C-14 (Myristic)

Aldehyde C-14 (Pure)

Aldehyde C-16 (Pure)

- Aldehyde C-18
- Aldehyde C-19

Aldehyde C-20

Allyl Sulfide

Ambrettolide

Amyl Benzoate

Amyl Butyrate

Amyl Cinnamic Aldehyde

Amyl Phenyl Acetate

**Amyl Propionate** 

Anethole

Angelic Acid

Anisic Acid

Anisic Alcohol

Anisic Aldehyde

Anisole

Anisyl Acetate

Anisyl Formate

Anthranilic Acid

Benzaldehyde

Benzoic Acid

Benzyl Acetate

Benzyl Benzoate

Benzyl Cinnamate

Benzyl Formate

**Benzyl Phenyl Acetate** 

**Benzyl Propionate** 

Benzyl Salicylate

Benzyl Valerianate

Bornyl Acetate

Bromo Styrol

**Butyl Benzoate** 

Butyric Acid

Butyric Aldehyde

Cadinene

Capric Acid

Caproic Acid

Caprylic Acid

Carvacrol

Caryophyllene

Cedrene

Cedryl Acetate

**Cinnamic Acid** 

Cinnamic Aldehyde

Cinnamyl Acetate

Cinnamyl Benzoate

Cinnamyl Cinnamate

**Cinnamyl Formate** 

Citral

Citric Acid

Citronellal

- **Citronellyl Acetate**
- Citronellyl Butyrate
- Citronellyl Formate
- Citronellyl Propionate
- Citronellyl Valerianate
- Coumarin
- Coumarin Acid
- P-cresyl Acetate
- P-cresyl Phenyl Acetate
- Cuminic Aldehyde
- Cymol
- Dimethyl Benzyl Carbinyl Acet Ate
- Dimethyl Octanol
- Dimethyl Phenyl Carbinyl Acetate
- Diphenyl Oxide
- Epoxy Linalyl Acetate
- Ethyl Acetoacetate
- Ethyl Alcohol
- Ethyl Anisate
- Ethyl Anthranilate
- Ethyl Benzoate
- Ethyl Caproate
- Ethyl Cinnamate
- Ethyl Formate
- Ethyl Hexyl Carbinyl Acetate
- Ethyl Linalyl Acetate

Ethyl Phenyl Acetate

Ethyl Salicylate

Eugenol

Eugenol Acetate

Fenchene

Formic Acid

Fumaric Acid

Geraniol

Geranyl Acetate

**Geranyl Butyrate** 

Geranyl Caproate

Geranyl Phenyl Acetate

**Geranyl Propionate** 

Heliotropin

Heptane

Heptanoic Acid

Indole

Ionone

**Isoamyl Acetate** 

Isoamyl Salicylate

Isobutyl Acetate

Isobutyl Benzoate

Isobutyl Cinnamate

Isobutyl Phenyl Acetate

Isobutyl Quinoline

Isobutyl Salicylate

Isopropyl Anthranilate

Lactic Acid

Lauric Acid

Linalool

Linalyl Acetate

Linalyl Butyrate

Linalyl Cinnamate

Linalyl Formate

Linalyl Propionate

Linalyl Valerianate

Malic Acid

Menthol

Menthone

Menthyl Acetate

P-methoxy Phenylbutyl Acetate

Methyl Alcohol

Methyl Anisate

Methyl Anthran1late

Methyl Benzoate

Methyl Butyrate

Methyl Cinnamate

Methyl Eugenol

Methyl Hexyl Carbinyl Acetate

Methyl Phenyl Acetate

Methyl Salicylate

Musk Ambrette

Musk Ketone

Musk Xylol

- Myrcene
- Nerol
- Nerolin

Neryl Acetate

Nonoic Acid

γ-octa Lactone

Octylene

Ocymene

Oxalic Acid

Phenyl Acetaldehyde

Phenyl Acetic Acid

Phenyl Ethyl Acetate

Phenyl Ethyl Alcohol

Phenyl Ethyl Anthranilate

Phenyl Ethyl Butyrate

Phenyl Ethyl Cinnamate

Phenyl Ethyl Formate

Phenyl Ethyl Phenyl Acetate

Phenyl Ethyl Propionate

Phenyl Ethyl Salicylate

Phenyl Propyl Acetate

Phenyl Propyl Alcohol

Phenyl Propyl Butyrate

Phenyl Propyl Formate

Pinene

Propionic Acid

**Propyl Alcohol** 

- Propyl Formate
- Pulegone

Pyroligneous Acid

- Rhodinol
- **Rhodinyl Acetate**
- **Rhodinyl Formate**
- Sabinene
- Safrole
- Salicylic Acid
- Santalene
- Santalol
- Santalyl Acetate
- Santene
- Sebacic Acid
- Skatole
- Styralyl Acetate
- Styrol
- Succinic Acid
- Tannic Acid
- Tartaric Acid
- Terpineol
- **Terpinyl Acetate**
- **Terpinyl Formate**
- **Terpinyl Propionate**
- Thymol

**Tiglic Acid** 

Trichloromethylphenyl Carbinyl Acetate

Umbelliferone

Undecylenic Acid

Valerianic Acid

Vanillin

Vetiver Acetate

Yara Yara

## 9. AROMATIC CHEMICALS USED IN FLAVOUR AND PERFUME COMPOUNDS

Acetophenone

Amyl Cinnamic Aldehyde

Amyl Salicylate

Anisic Aldehyde

Benzaldehyde

Benzyl Acetate

Benzyl Alcohol

**Benzyl Benzoate** 

**Benzyl Cinnamate** 

Benzylidene Acetone

**Benzyl Salicylate** 

Borneol

**Bornyl Acetate** 

**Cinnamic Acid** 

Cinnamic Alcohol

Cinnamic Aldehyde

#### Citral

- Citronellal
- Citronellol
- Coumarin
- P-cresyl Acetate
- P-cresyl Methyl Ether
- Cyclamen Aldehyde
- **Diphenyl Ketone**
- Diphenyl Oxide
- Eugenol
- Geraniol
- Heliotropin
- Hydroxycitronellal
- Indole
- lonone
- Linalool
- Linalyl Acetate
- Methyl Anthranilate
- Methyl Heptyne Carbonate
- P-methyl Quinoline
- Methyl Salicylate
- Musk Ambrette
- Musk Ketone
- Musk Xylene
- Nerol
- γ-nonalactone

Phenylacetaldehyde

Phenyl Acetic Acid

Phenyl Ethyl Acetate

Phenyl Ethyl Alcohol

**Rose Crystals** 

Rose Oxide

Terpineol

γ-undelactone

Vanillin

## 10. NATURAL ODOURS OF AROMATIC CHEMICALS

Balsamic

Citrus

Fatty

Flowery

Grassy

Green-Floral

Harsh-Pungent

Herb-Like

Leaf-Green

Musky

Odorless-Faint

Waxy

Woody

Acacia

Bergamot

Carnation

#### Cassia

Chrysanthemum
Clove
Clover
Cyclamen
Fern
Frangipani
Gardenia
Geranium
Hawthorn
Heliotrope
Honeysuckle
Hyacinth
Iris
Jasmine
Jonquil
Lavender
Lilac
Lily of the Valley
Linden
Magnolia
Mignonette
Mimosa
Moon Flower
Morning Glory
Moss

#### Musk

Narcissus

Orange Blossom

Orchid

Patchouli

Pine (Needles)

Rose

Sweet Pea

Syringa

Tobacco

Trefle

Tuberose

Verbena

Violet

Wallflower

Wisteria

Wintergreen

Ylang Ylang

Seaweed (Algae)

Adonis

Forsythia

Fringe Tree

**Fixatives for Perfumes** 

Ambergris

## 11. BASIC FLAVOURING MATERIALS

Introduction

## Natural Flavors Simulated with Synthetic

Chemicals

FRUITY

Fruity

FRESH FRUIT

Apple

Apricot

Barberry

Bilberry

Blackberry

Black Currant

Blueberry

Cherry (Sweet and Sour)

Cranberry

Date

Gooseberry

Grape

Grape Fruit

Нор

Huckleberry

Lemon

Lime

Loganberry

Mandarin

Melon (Watermelon)

Mulberry

#### Orange

Peach (Freestone, Clin Gstone, Nectarine)

Pear

Plum (Prunes)

Pomegrana Te

Quince

Raspberry

Red Currant

Strawberry

TROPICAL FRUITS

Avocado

Banana

Cherimoya

Coconut

Guava

Mango

Papaya

Pineapple (Ananas)

DRY FRUITS

Almond, Bitter

Brazil Nut (Cream Nut, Butter Nut, Pura Nut, Shenut)

Cashew Nut

Chestnut

Hazelnut (Cobnuts, Filbert)

Macadamia (Queensland Nut)

Peanut

Pecan

#### Pistachio

Walnut

## NATURALLY SWEET PRODUCTS

Honey

Licorice

Maple

Vanilla Beans

Woodruff

DAILY BEVERAGES

Cocoa-chocolate

Coffee

Kola

Теа

Alcoholic Beverages

Beer

Bitters

Cognac

Fermented Drinks

**Fortified Beverages** 

Light or Still

Rum

Sparkling Wines

Vermouth

Whiskey

DAIRY PRODUCTS

Butter

Turmeric

## 12. AROMATIC CHEMICALS USED IN FLAVOUR COMPOUNDING

Aldehyde C-18

Anethole

Anisaldehyde

Benzaldehyde

Benzyl Butyrate

Bourbonal

Carvone

Cinnamic Aldehyde

**Cinnamyl Alcohol** 

Cinnamyl Butyrate

Cinnamyl Propionate

Citral

Citronellol

Coumarin

Cumic Aldehyde

Decyl Acetate

N-decyl Alcohol

## N-decyl Aldehyde

Dodecyl Aldehyde

## Ethyl Acetate

Ethyl Acetoacetate

- Ethyl Benzoate
- Ethyl Butyrate
- Ethyl Malonate
- Ethyl Myristate
- Ethyl Oenanthate
- Ethyl Pelargonate
- Ethyl Propionate
- Ethyl Sebacate
- Ethyl Valerate
- Eugenol
- Geraniol
- Geranyl Acetate
- Geranyl N-butyrate

Heliotropin

Heptylic Aldehyde

Hydrocinnamic Aldehyde

Hydroxycitronellal

Ionone

Irone

Isoamyl Acetate

Isoamyl Butyrate

Isoamyl Valerate

Isobutyl Acetate

Isobutyl Butyrate

Isoeugenol

Linalool

Linalyl Acetate

Linalyl Butyrate

Menthol

Methyl Anthranilate

Methyl M-anthranilate

Methyl Eugenol

Methyl Heptyne Carbonate

Methyl Isoeugenol

Methylnonyl Acetaldehyde

Methyl Phenyl Acetate

Methyl Phenyl Glycidate

β-naphthol Isobutyl

β-naphthyl Ethyl Ether

Nerol

N-nonyl Alcohol

Nonyl Aldehyde

**Octyl Acetate** 

N-octyl Alcohol

N-octyl Aldehyde

Octyl Butyrate

Phenyl Ethyl Acetate

Phenyl Ethyl Alcohol

Phenyl Ethyl Propionate

Rhodinol

**Rhodinyl Acetate** 

Rhodinyl Butyrate

α-terpineol

**Terpinyl Propionate** 

P-toluyl Aldehyde

N-undelactone

Undecylenic Aldehyde

Vanillin

## 13. SOLVENTS

Introduction

Solvents commonly used for flavors and perfumes

Acetone

Benzene

Corn Oil

Cottonseed Oil

Cyclohexane

Dlethyl Phthalate

Ethyl Acetate

Ethyl Alcohol

Glycerol

**Glyceryl Triacetate** 

N-hexane

Isopropyl Alcohol

Polysorbate 80

**Propylene Glycol** 

Soybean Oil

Water, Distilled

14. COLORANTS FOR FLAVOURS AND PERFUMES NATURAL COLORS

Alkanet Annatto β-Apo-8' -carotenal Beet Buckthorn Campeachy Canthaxanthin Caramel Catechu Chlorophyll Cochineal Cud Bear

#### Erythrosine

Guanine

Huckleberry

Indigotin

Kino

Mallow Flowers

Paprika

Pernambuco

Pokeberry

Safflower

Saffron

Sandalwood

Tartrazine

Titanium Dioxide

Turmeric

Ultramarine

Yellowwood

Zinc Oxide

Colors of Common Flavors and Perfumes

#### **15. STABILIZERS**

Agar-agar

Arabic Gum

Bean Gums, Locust

Carrageen

Guar Gum

Karaya Gum

Pectin

Tragacanth Gum

#### **16. FORMULATION OF PERFUMES**

Acacia

Acetic Acid, Tincture

Alpestrine, Perfume

Amber, Base

Amber, Concrete (Fixative)

## Amber, Liquid (Chypre Basis)

Ambergris, Perfume Imitation No. 1

Ambergris, Perfume Imitation No. 2

Ambergris, Tincture

Bergammonia, Disinfectant

- Bergamot, Essence (Natural) No. 1
- Bergamot, Essence (Natural) No. 2

Bouquet, No. 1 (For Soap)

Bouquet, No. 2 (For Soap)

Bouvardia

Calamus, Imitation No. 1

Calamus, Imitation No. 2

Camphor, Tincture

Cananga (For Soap)

Capsicum

Carnation, Imitation No. 1

Carnation, Imitation No. 2

- Carnation (For Soap)
- Carnation, Pink (Perfume)
- Castor, Tincture No. 1
- Castor, Tincture No. 2
- Cedrela, Wood Type
- Citronella (For Soap)
- Coconut, Extract (Natural)
- Coconut, Paste
- Cologne
- Color Base Standard Formula No. 1
- Color Base Standard Formula No. 2
- Color Mixture
- Colors (Natural Dyes)
- Cover Odor, Perfume No. 1
- Cover Odor, Perfume No. 2
- Cover Odor, Perfume No. 3
- Cyclamen, Base (Synthetic)
- Cyclamen (for Soap)
- Deodorant for Cream
- Deodorant for Vessels
- Deodorant for Water
- Deodorants (Masking Agent)
- Deodorants (Masking Agent) for Heavy Odors
- Deodorants (Masking Agent) Grassy Odors
- Diacetyl, Tincture

Eau De Cologne

- Eau De Cologne (for Soap)
- Eglantine (Wild Rose)
- Esters, General Base
- Fenugreek, Tincture
- Fern (for Soap)
- Floral Fragrance (for Soap)
- Floral, Imitation No. 1
- Floral, Imitation No. 2

#### Fougere

- Fougere, Base (Fern)
- Frangipanni, Imitation No. 1
- (Acutifolia, Alba, Rubra)
- Frangipanni, Imitation No. 2
- Frangipanni, Imitation No. 3
- Frangipanni, Imitation No. 4
- Freshener, Perfume
- Gardenia, Base
- Geranium
- Geranium, Imitation (for Soap)
- Geranium, Synthetic
- Gingergrass (for Soap)
- Girofl, Imitation No. 1
- Girofl, Imitation No. 2
- Halo, Sea Salt Odor
- Hawthorn
- Hawthorn (for Soap)

Heliotrope (for Soap) Herbal Base, Gold Water Hip, Extract (Natural) Hip, Imitation No. 1 Honey, Synthetic (for Perfume) Honeysuckle Hyacinth lonone Iris Iris, Synthetic Jasmine (for Brilliantine) Jasmine Grandiflora Jasmine, Imitation No. 1 Jasmine, Imitation No. 2 Jasmine, Imitation No. 3 (for Soap) Jasmine, Infusion Jasmine, Synthetic No. 1 Jasmine, Synthetic No. 2 Jasmine, Synthetic No. 3 Jasmine, Synthetic No. 4 Jasmine, Synthetic No. 5 Jasmine, Synthetic No. 6 Jonquil (Daffodil), Imitation

- Jonquil (Daffodil), Synthetic
- Lavender, Essence (Natural)
- Lavender, Imitation No. 1

- Lavender, Imitation No. 2
- Lavender, Imitation No. 3
- Lavender, Imitation No. 4
- Lavender, Imitation No. 5
- Lavender, Imitation No. 6
- Lavender, Imitation No. 7
- Lavender, Imitation No. 8
- Lavender, Imitation No. 9
- Lavender, Imitation No. 10
- Lavender, Imitation No. 11
- Lavender, Imitation No. 12 (for Soap)
- Lavender, Sweet
- Leather
- Lilac, Imitation No. 1
- Lilac, Imitation No. 2
- Lilac, Imitation No. 3
- Lilac, Imitation No. 4
- Lilac, Imitation No. 5
- Lilac, Imitation No. 6
- Lilac, Imitation No. 7
- Lilac, Imitation No. 8
- Lilac, Imitation No. 9 (for Soap)
- Lilac, Synthetic No. 1 (for Soap)
- Lilac, Synthetic No. 2 (for Soap)
- Lily, Base
- Magnolia
- Mignonette (Reseda)

Mimosa, Imitation

Mimosa, Synthetic

# Moss

Muguet (Lily of the Valley), Imitation No. 1

- Muguet (Lily of the Valley), Imitation No. 2
- Muguet (Lily of the Valley), Imitation No. 3

## (For Soap)

Muguet (Lily of The Valley), Synthetic No. 1

Muguet (Lily of the Valley), Synthetic No. 2

## Musk

Musk, Imitation No. 1 (for Powder)

- Musk, Imitation No. 2 (for Soap)
- Narcissus, Imitation No. 1 (for Powder)
- Narcissus, Imitation No. 2 (for Cologne)
- Narcissus, Imitation No. 3 (for Cologne)
- Narcissus, Imitation No. 4 Poeticus (for Cologne)
- Narcissus, Imitation No. 5 (for Soap)
- Narcissus, Synthetic No. 1
- Narcissus, Synthetic No. 2
- Narcissus, Synthetic No. 3
- Narcissus, Synthetic No. 4
- Neroli, Imitation No. 1
- Neroli, Imitation No. 2
- Neroli, Imitation No. 3
- Neroli, Imitation No. 4 (for Soap)
- Nerolin

#### Neutroleum, Deodorizing Perfume

- New Mown Hay (Foin Coupe), Imitation No. 1
- New Mown Hay (Fon Coupe), Imitation No. 2
- New Mown Hay (Foin Coupe), Imitation No. 3
- Opoponax, Imitation No. 1
- Opoponax, Imitation No. 2
- Opoponax, Imitation No. 3
- Opoponax, Imitation No. 4 (for Soap)
- Orange Blosoom, Bouquet (for Soap)
- Orange Flower, Imitation No. 1
- Orange Flower, Imitation No. 2
- Orange Flower, Imitation No. 3
- Orange Flower, Synthetic No. 4
- Orchid, Imitation
- Orris Root, Extract (Natural)
- Orris Root, Florentine
- Orris Root, Synthetic
- Pathouli, Imitation No. 1 (for Soap)
- Pathouli, Imitation No. 2 (Ffor Toilet Powder)
- Pine, Bouquet (for Soap)
- Pine, Imitation No. 1
- Pine, Imitation No. 2
- Pine Needle
- Pine Needle, Siberian, Imitation No. 1
- Pine Needle, Siberian, Imitation No. 2
- Pine Needle, Siberian, Imitation No. 3
- Rose, Bulgarian Type

## Rose, For Cream

- Rose, For Face Powder No. 1
- Rose, For Face Powder No. 2
- Rose, Imitation No. 1
- Rose, Imitation No. 2
- Rose, Imitation No. 3
- Rose, Imitation No. 4
- Rose, Imitation No. 5 (for Cosmetic Cream)
- Rose, Imitation No. 6 (for Soap)
- Rose, Imitation No. 7
- Rose, Imitation No. 8
- Rose, Imitation No. 9 (for Perfume)
- Rose, Imitation No. 10
- Rose, Imitation No. 11
- Rose, Imitation No. 12
- Rose, Imitation, No. 13
- Rose, Imitation No. 14
- Rose, Imitation No. 15
- Rose, Imitation No. 16
- Rose, Imitation No. 17
- Rose, Imitation No. 18
- Rose, Imitation No. 19
- Rose, Imitation No. 20
- Rose Macedone
- Rose, Moss
- Rose, Oil, Synthetic

Rose, Oriental

## Rose Otto

Rose, Synthetic No. 1 (General Base for Rose Odor)

Rose, Synthetic No. 2

Rose, Synthetic No. 3

- Rose, Synthetic No. 4 (Milk-Like Compound)
- Rose, White
- Sandalwood Santal, (for Soap)
- Sassafras, for Soap No. 1
- Sassafras, for Soap No. 2
- Sebacic Acid, Stabilizer for Perfume
- Soap, Perfume No. 1
- Soap, Perfume No. 2
- Soap, Perfume No. 3
- Soap, Perfume No. 4
- Soap, Perfume No. 5

# Sweet Pea, Blossom

- Syringa, Imitation No. 1
- Syringa, Imitation No. 2
- Tobacoo for Snuff
- Tobacco Perfumes, General Basic Material No. 1
- Tobacco Perfumes, General Basic Material No. 2
- Tobacco, Strong Odor
- Thefl (Clover, Trefoil) (for Soap)
- Tuberose, Imitation (for Soap)
- Tuberrose, Synthetic
- Uny Cologne, Perfume Base

- Vaporous Perfume, Imitation No. 1
- Vaporous Perfume, Imitation No. 2
- Vaporous Perfume, Imitation No. 3
- Violet, For Face Powder
- Violet, Imitation No. 1
- Violet, Imitation No. 2
- Violet, Imitation No. 3
- Violet, Imitation No. 4 (for Soap)
- Violet, Imitation No. 5 (for Soap)
- Violet, Imitation No. 6
- Violet Leaf
- Violet, Synthetic
- Wall Flower
- Winter Green, Imitation (for Soap)
- Ylang Ylang, Imitation No. 1
- Ylang Ylang, Imitation No. 2
- Ylang Ylang, Imitation No. 3
- Ylang Ylang, Imitation No. 4
- Ylang Ylang, Imitation No. 5
- Ylang Ylang, Synthetic No. 1

Ylang Ylang, Synthetic No. 2

# 17. FORMULATIONS OF FLAVOURS

General Method for the Extraction of Natural Flavors from Fresh or Dry Fruits

Neutral Esters Mixture Base

Abbey, Benedictine Type

Absinthe

Advocaat (Advokaat)

Allspice, Oil

Almond, Bitter

- Almond, Bitter Essence (Natural)
- Almond, Bitter (for Soap)
- Almond, Bitter Imitation
- Almond, Bitter No. 1
- Almond, Bitter No. 2
- Almond, Bitter No. 3
- Almond, Bitter No. 4
- Almond, Bitter No. 5
- Almond, Bitter No. 6
- Almond, Bitter No. 7
- Almond, Bitter, Synthetic No. 1
- Almond, Bitter, Synthetic No. 2
- Almond, Bitter, Synthetic No. 3
- Almond, Bitter Synthetic No. 4
- Almond, Imitation
- Almond, Milk (Orzata)
- Almond, Peach
- Angelic, Tincture
- Angostura, Bitter
- Anise Base
- Aniseed
- Anisette, Oil No. 1

Anisette, Oil No. 2

Apple, Base

- Apple, Essence (Natural) No. 1
- Apple, Essence (Natural) No. 2
- Apple, Essence (Natural) No. 3
- Apple, Essence (Natural) No. 4
- Apple, Essence (Natural) No. 5
- Apple, Imitation No. 1
- Apple, Imitation No. 2
- Apple, Imitation No. 3
- Apple, Imitation No. 4
- Apple, Synthetic No. 1
- Apple, Synthetic No. 2
- Apple, Synthetic No. 3
- Apple, Synthetic No. 4
- Apple, Synthetic No. 5
- Apple, Synthetic No. 6
- Appled, Synthetic No. 7
- Apple, Synthetic No. 8
- Apple, Synthetic No. 9
- Apple, Synthetic No. 10
- Apple, Synthetic No. 11
- Apple, Synthetic No. 12
- Apple, Synthetic No. 13
- Apple, Synthetic No. 14
- Apricot, Essence (Natural) No. 1

- Apricot, Essence (Natural) No. 2
- Apricot, Imitation No. 1
- Apricot, Imitation No. 2
- Apricot, Imitation No. 3
- Apricot, Imitation No. 4
- Apricot, Imitation No. 5
- Apricot, Synthetic No. 1
- Apricot, Synthetic No. 2
- Apricot, Synthetic No. 3
- Apricot, Synthetic No. 4
- Apricot, Synthetic No. 5
- Aubepine (Hawthorn)
- Avocado
- Banana, Essence (Natural) No. 1
- Banana, Essence (Natural) No. 2
- Banana, Imitation No. 1
- Banana, Imitation No. 2
- Banana, Imitation No. 3
- Banana, Imitation No. 4
- Banana, Imitation No. 5
- Banana, Synthetic No. 1
- Banana, Synthetic No. 2
- Banana, Synthetic No. 3
- Banana, Synthetic No. 4
- Banana, Synthetic No. 5
- Barbecue
- Barbecue Sauce, Hunt Type

- Barberry, Essence (Natural)
- Benedictine No. 1
- Benedictine No. 2
- Bergamot, Flavor
- Bilberry, Essence (Natural) No. 1
- Bilberry, Essence (Natural) No. 2, Red
- Bilberry, Essence (Natural) No. 3 Scandinavian Type
- Bilberry, Imitation No. 1
- Bilberry, Imitation No. 2
- Bilberry, Imitation No. 3
- Bitter No. 1, Unicum
- Bitter No. 2, Spanish
- Bitter No. 3, Stomach
- Blackberry, Essence (Natural)
- Blackberry, Imitation No. 1
- Blackberry, Imitation No. 2
- Blackberry, Imitation No. 3
- Blackberry, Synthetic
- Black Cherry
- Black Currant
- Black Currant, Synthetic
- Black Pepper, Imitation No. 1
- Black Pepper, Imitation No. 2
- Blueberry, Essence (Natural)
- Brandy (Cognac) No. 1
- Brandy (Cognac) No. 2

- Bread, Fresh Roasted Flavor
- Butter, Flavor, Imitation No. 1
- Butter, Flavor, Imitation No. 2
- Butter, Flavor, Imitation No. 3
- Butter, Flavor, Imitation No. 4
- Butter, Flavor, Imitation No. 5
- Butter, Flavor, Imitation No. 6
- Butter, Flavor, Synthetic
- Butter, Rum
- Butterscotch, Imitation No. 1
- Butterscotch, Imitation No. 2
- Butterscotch, Imitation No. 3
- Butterscotch, Imitation No. 4
- Butterscotch, Imitation No. 5
- Butterscotch, Imitation No. 6
- Cacao, Extract (Natural) No. 1, Colorless
- Cacao, Extract (Natural) No. 2, Brown
- Cacao, Imitation
- Cacao, Synthetic
- Cake, Flavor No. 1
- Cake, Flavor No. 2
- Caper, Extract (Natural)
- Capsicum, Extract (Natural)
- Caramel, Flavor No. 1
- Caramel, Flavor No. 2
- Caraway, Imitation No. 1
- Caraway, Imitation No. 2

- Caraway, Imitation No. 3
- Caraway, Imitation No. 4
- Caraway, Imitation No. 5
- Cardamom, Imitation No. 1
- Cardamom, Imitation No. 2
- Carnation, Flavor
- Carrot, Extract (Natural)
- Cascarilla, Tincture
- Cashew, Extract (Natural)
- Cassia, Imitation No. 1
- Cassia, Imitation No. 2
- Cassia, Imitation No. 3
- Cassia, Imitation No. 4
- Cassia, Imitation No. 5
- Cassia, Imitation No. 6
- Cassia, Imitation No. 7
- Cassia, Imitation No. 8
- Cassia, Imitation No. 9
- Champagne, Cedar, Imitation
- Champagne, Flavor
- Chartreuse
- Chartreuse (Liqueur) No. 1
- Chartreuse (Liqueur) No. 2
- Cheese, Blue, Synthetic No. 1
- Cheese, Blue, Synthetic No. 2
- Cheese Roquefort Type

Cheese, Synthetic

- Cherimoya, Synthetic
- Cherry Black, Essence (Natural)
- Cherry Blossom, No. 1
- Cherry Blossom No. 2
- Cherry Brandy, No. 1
- Cherry Brandy, No. 2
- Cherry Brandy, Synthetic
- Cherry, Imitation No. 1
- Cherry, Imitation No. 2
- Cherry, Imitation No. 3
- Cherry, Imitation No. 4
- Cherry, Imitation No. 5
- Cherry, Imitation No. 6
- Cherry, Imitation No. 7
- Cherry, Imitation No. 8
- Cherry, Imitation No. 9
- Cherry, Imitation No. 10
- Cherry, Imitation No. 11
- Cherry, Imitation No. 12
- Cherry, Imitation No. 13
- Cherry, Imitation No. 14
- Cherry, Imitation No. 15
- Cherry, Imitation No. 16
- Cherry, Imitation No. 17
- Cherry Red Essence (Natural) Agri
- Cherry, Synthetic No. 1

- Cherry, Synthetic No. 2
- Cherry, Synthetic No. 3
- Cherry, Synthetic No. 4
- Cherry, Synthetic No. 5
- Cherry, Synthetic No. 6
- Cherry, Synthetic No. 7
- Cherry, Synthetic No. 8
- Cherry, Synthetic No. 9
- Cherry Wild, Agriot, Synthetic
- Chervil, Essence (Natural)
- Chocolate, Essence (For Praline Liqueur)
- Chocolate, Falvor (Natural)
- Chocolate, Flavor, Synthetic
- Chocolate, Hardener
- Chypre, Base for Bouquet (Aroma of Wine and Liquor)
- Cinnamon, Imitation
- Citrus Fruits, Extract from Peels
- Clove
- Coca, Flavor
- Cocoa, Essence (Natural)
- Coffee, Extract (Natural) No. 1, Brown
- Coffee, Extract (Natural) No. 2, Colorless
- Coffee, Extract (Natural) No. 3 Brown
- Coffee, Extract (Natural) No. 4, Colorless
- Coffee, Imitation No. 1
- Coffee, Imitation No. 2

Coffee, Imitation No. 3

- Coffee, Synthetic
- Cognac, Base, Synthetic
- Cognac, Imitation No. 1
- Cognac, Imitation No. 2
- Cognac, Imitation No. 3
- Cognac, Imitation No. 4
- Cognac, Imitation No. 5
- Cognac, Imitation No. 5
- Cognac, Imitation No. 6
- Cognac, Imitation No. 7
- Cola, Imitation No. 1 (Syrup)
- Cola, Imitation No. 2 (Syrup)
- Cola, Tincture
- Coriander, Imitation No. 1
- Coriander, Imitation No. 2
- Cranberry
- Cranberry, Synthetic
- Cream Paste
- **Crystal Beverages**
- Cucumber, Extract (Natural)
- Cucumber Milk (for Cosmetics)
- Culinary, Extract (Natural)
- Curacao, Imitation No. 1, Liquor Base
- Curacao, Imitation No. 2, Liquor Base
- Curacao, Imitation No. 3, Liquor Base
- Curacao, Imitation No. 4 Liquor Base

- Curacao, Imitation No. 5, Liquor Base
- Curacao, Imitation No. 6
- Currant, Extract (Natural) No. 1
- Currant, Extract (Natural) No. 2
- Currant, Imitation No. 1
- Currant, Imitation No. 2
- Currant, Imitation No. 3
- Currant, Imitation No. 4
- Currant, Imitation No. 5
- Currant, Imitation No. 6
- Currant, Synthetic No. 1
- Currant, Synthetic No. 2
- Currant, Synthetic No. 3
- Currant, Synthetic No 4
- Current, Synthetic No. 5
- Currant, Synthetic No. 6
- Date, Extract (Natural)
- Date, Imitation No. 1
- Date, Imitation No. 2
- Date, Synthetic
- Fernet Branca Essence
- Fig, Essence (Natural)
- Fondant Orgeat Praline
- Fortified Extracts from Vegetables
- Fruit Extract, Natural Flavor
- Fruit Soda

Fungi Extract (Natural)

- Garlic, Extract (Natural)
- Gin, Imitation
- Ginger, Essence (Natural)
- Ginger, Extract (Natural), Gingerine
- Ginger, Imitation No. 1
- Ginger, Imitation No. 2
- Ginger, Imitation No. 3
- Ginger, Imitation No. 4
- Ginger, Imitation No. 5
- Gingergrass (Palmarosa)
- Girofl (Clove), Tincture
- Glace Cake Mix
- Gooseberry, Extract (Natural)
- Gooseberry, Imitation No. 1
- Gooseberry, Imitation No. 2
- Gooseberry, Imitation No. 3
- Gooseberry, Imitation No. 4
- Gooseberry, Imitation No. 5
- Gooseberry, Synthetic No. 1
- Gooseberry, Synthetic No. 2
- Gooseberry, Synthetic No. 3
- Gooseberry, Synthetic No. 4
- Grape, Extract (Natural) No. 1
- Grape, Extract (Natural) No. 2
- Grape, Imitation No. 1
- Grape, Imitation No. 2

- Grape, Synthetic No. 1
- Grape, Synthetic No. 2
- Grape, Synthetic No. 3
- Grape, Synthetic No. 4
- Grape, Synthetic No. 5
- Grape, Synthetic No. 6
- Grape, Synthetic No. 7
- Grape, Synthetic No. 8
- Grape, Synthetic No. 9
- Grapefruit, Synthetic
- Green Gage, Extract (Natural)
- Green Gage, Imitation
- Grenadine
- Guava, Extract (Natural)
- Ham, Baked Glaze
- Hazelnut, Extract (Natural)
- Herbal Cream (Celery or any Other Herb)
- Honey, Imitation No. 1
- Honey, Imitation No. 2
- Honey, Imitation No. 3
- Honey, Imitation No. 4
- Honey, Imitation No. 5
- Honey, Imitation No. 6
- Honey, Imitation No. 7
- Honey, Synthetic No. 1
- Honey, Synthetic No. 2 (for Perfumes)

Honey, Synthetic No. 3 (for Perfumes)

- Honey, Synthetic No. 4
- Honey, Synthetic No. 5
- Hop, Extract (Natural)
- Hop, Imitation
- Hop, Synthetic No. 1
- Hop, Synthetic No. 2
- Hop, Synthetic No. 3
- Huckleberry, Synthetic No. 1
- Huckleberry, Synthetic No. 2
- Juices, General
- Kernel (Nut), General
- Ketchup (Catsup), Mushroom Flavor
- Ketchup (Catsup), Spice
- Ketchup (Catsup), Tomato Flavor
- Kummel
- Lavender, Flavor
- Lemon, Extract (Natural)
- Lemon, Imitation No. 1
- Lemon, Imitation No. 2
- Lemon, Imitation No. 3
- Lemon, Imitation No. 4
- Lemon, Imitation No. 5
- Lemon, Imitation No. 6
- Lemon, Imitation No. 7
- Lemon, Imitation No. 8
- Lemon, Imitation No. 9

- Lemon, Imitation No. 10
- Lemon, Imitation No. 11
- Lemon, Imitation No. 12
- Lemon, Imitation No. 13
- Lemon, Imitation No. 14
- Lemon, Imitation No. 15
- Lemon, Imitation No. 16
- Lemon, Powdered (Concentrate)
- Lemon, Synthetic No. 1
- Lemon, Synthetic No. 2
- Lemon, Synthetic No. 3
- Licorice, Root, Extract (Natural)
- Lime, Extract (Natural)
- Lime, Imitation
- Lime, Synthetic No. 1
- Lime, Synthetic No. 2
- Lime, Synthetic No. 3
- Lime, Synthetic No. 4
- Lime, Synthetic No. 5
- Malt, Extract (Natural)
- Malt, Imitation No. 1
- Malt, Imitation No. 2
- Mandarin, Imitation No. 1
- Mandarin, Imitation No. 2
- Mandarin, Imitation No. 3
- Mandarin, Imitation No. 4

- Mandarin, Imitation No. 5
- Mandarin, Imitation No. 6
- Mandarin, Imitation No. 7
- Mandarin, Imitation No. 8
- Mandarin, Imitation No. 9
- Mandarin, Synthetic No. 1
- Mango, Extract (Natural)
- Mango, Imitation
- Maple
- Maple, Flavormaple, Syrup
- Maraschino, Imitation No. 1
- Maraschino, Imitation No. 2
- Maraschino, Imitation No. 3
- Maraschino, Imitation No. 4
- Marshmallow
- Mayonnaise
- Mayonnaise, Real
- Mayonnaise, Spice
- Meat, Flavor
- Melon, Extract (Natural)
- Melon, Imitation No. 1
- Melon, Imitation No. 2
- Melon, Imitation No. 3
- Melon, Synthetic No. 1
- Melon, Synthetic No. 2
- Melon, Synthetic No. 3
- Melon, Synthetic No. 4

- Melon, Synthetic No. 5
- Melon, Synthetic No. 6
- Melon, Synthetic No. 7
- Melon, Synthetic No. 8
- Mentha, Cream
- Milk, Caramel
- Mint
- Mirabelle
- Mirabelle (Plum), Extract (Natural)
- Mirabelle (Plum), Imitation
- Mirabelle (Plum), Synthetic
- Muguet, for Cream
- Mulberry, Extract (Natural)
- Mulberry, Imitation
- Mulberry Synthetic No. 1
- Mulberry, Synthetic No. 2
- Mulberry, Synthetic No. 3
- Mushroom, Imitation No. 1
- Mushroom, Imitation No. 2
- Nectarine
- Noisettee
- Nougatine
- Nutmeg, Imitation No. 1
- Nutmeg, Imitation No. 2
- Nutmeg, Imitation No. 3
- Nutmeg, Imitation No. 4

Nutmeg, Imitation No. 5

Nuts, Flavor for Pastry

Nuts, Kernels (General Method of Flavor Extraction)

Onion

Onion, Extract (Natural)

Onion, Imitation

Orange, Extract (Natural)

For Orange Bitter Type

For Sweet Orange Type

Orange, Imitation No. 1

Orange, Imitation No. 2

Orange, Imitation No. 3

Orange, Imitation No. 4

Orange, Imitation No. 5

Orange, Imitation No. 6

Orange, Imitation No. 7

Orange, Imitation No. 8

Orange, Imitation No. 9

Orange, Imitation No. 10

Orange, Imitation No. 11

Orange, Imitation No. 12

Orange, Imitation No. 13

Orange, Imitation No. 14

Orange, Synthetic No. 1

Orange, Synthetic No. 2

Orange, Synthetic No. 3

Orange, Synthetic No. 4

## Oregano, Type

- Peach, Extract (Natural)
- Peach, Imitation No. 1
- Peach, Imitation No. 2
- Peach, Imitation No. 3
- Peach, Imitation No. 4
- Peach, Imitation No. 5
- Peach, Imitation No. 6
- Peach, Imitation No. 7
- Peach, Imitation No. 8
- Peach, Imitation No. 9
- Peach, Imitation No. 10
- Peach, Imitation No. 11
- Peach, Imitation No. 12
- Peach, Synthetic No. 1
- Peach, Synthetic No. 2
- Peach, Synthetic No. 3
- Peach, Synthetic No. 4
- Peach, Synthetic No. 5
- Peach, Synthetic No. 6
- Peach, Synthetic No. 7
- Peach, Synthetic No. 8
- Peach, Synthetic No. 9
- Peach, Synthetic No. 10
- Peach, Synthetic No. 11
- Peach, Synthetic No. 12

- Pear, Extract (Natural)
- Pear, Imitation No. 1
- Pear, Imitation No. 2
- Pear, Imitation No. 3
- Pear, Imitation No. 4
- Pear, Imitation No. 5
- Pear, Imitation No. 6
- Pear, Imitation No. 7
- Pear, Imitation No. 8
- Pear, Imitation No. 9
- Pear, Imitation No. 10
- Pear, Synthetic No. 1
- Pear, Synthetic No. 2
- Pear, Synthetic No. 3
- Pear, Synthetic No. 4
- Pear, Synthetic No. 5
- Pear, Synthetic No. 6
- Pear, Synthetic No. 7
- Pear, Synthetic No. 8
- Pear, Synthetic No. 9
- Pear, Synthetic No. 10
- Pear, Synthetic No. 11
- Pear, Synthetic No. 12
- Pear, Synthetic No. 13
- Pear, Synthetic No. 14
- Pea, Sweet, Imitation No. 1
- Pea, Sweet, Imitation No. 2

- Pea, Sweet, Imitation No. 3
- Pea, Sweet, Synthetic No. 1
- Pea, Sweet, Synthetic No. 2
- Peppermint, Imitation No. 1
- Peppermint, Imitation No. 2
- Peppermint, Imitation No. 3
- Peppermint, Imitation No. 4
- Peppermint, Imitation No. 5
- Peppermint, Imitation No. 6
- Persicot, (Peach Kernel Imitation)
- **Pickle Spice Salts**
- Pineapple (Ananas) Extract (Natural) No. 1
- **Pineapple Peels**
- Pineapple, (Ananas) Extract (Natural) No. 2
- Pineapple (Ananas), Imitation No. 1
- Pineapple (Ananas), Imitation No. 2
- Pineapple (Ananas), Imitation No. 3
- Pineapple (Ananas), Imitation No. 4
- Pineapple (Ananas), Imitation No. 5
- Pineapple (Ananas), Imitation No. 6
- Pineapple (Ananas), Imitation No. 7
- Pineapple (Ananas), Imitation No. 8
- Pineapple (Ananas), Imitation No. 9
- Pineapple (Ananas), Imitation No. 10
- Pineapple (Ananas), Synthetic No. 1
- Pineapple (Ananas), Synthetic No. 2

- Pineapple (Ananas), Synthetic No. 3
- Pineapple (Ananas), Synthetic No. 4
- Pineapple (Ananas), Synthetic No. 5
- Pineapple (Ananas), Synthetic No. 6
- Pineapple (Ananas), Synthetic No. 7
- Pineapple (Ananas), Synthetic No. 8
- Pineapple (Ananas), Synthetic No. 9
- Pineapple (Ananas), Synthetic No.10
- Pineapple (Ananas), Synthetic No.11
- Pistachio Nut, Extract (Natural)
- Pistachio Nut, Imitation No. 1
- Pistachio Nut, Imitation No. 2
- Pistachio Nut, Imitation No. 3
- Pistachio Nut, Imitation No. 4
- Pistachio Nut, Imitation No. 5
- Pistachio Nut, Imitation No. 6
- Pistachio Nut, Imitation No. 7
- Pistachio Nut, Imitation No. 8
- Plum, Extract (Natural)
- Plum, Imitation No. 1
- Plum, Imitation No. 2
- Plum, Imitation No. 3
- Plum, Imitation No. 4
- Plum, Imitation No. 5
- Plum, Imitation No. 6
- Plum, Synthetic No. 1
- Plum, Synthetic No. 2

- Plum, Synthetic No. 3
- Plum, Synthetic No. 4
- Plum, Synthetic No. 5
- Plum, Synthetic No. 6
- Pomegranate (Grenadine), Imitation No.1
- Pomegranate (Grenadine), Imitation No. 2
- Pomegranate (Grenadine), Imitation No. 3
- Pomegranate (Grenadine), Imitation No. 4
- Pomegranate (Grenadine), Imitation No. 5
- Pomegranate (Grenadine), Imitation No. 6
- Pomegranate (Grenadine), Imitation No. 7
- Pomegranate (Grenadine), Imitation No. 8
- Pomegranate (Grenadine), Synthetic
- Potato, Flavor
- Pound Cake, Flavor
- Powdered Flavors
- Praline Flavor (Crystals)
- Prunelle, Extract (Natural)
- Quince, Extract (Natural)
- Quince, Imitation
- Quince, Synthetic No. 1
- Quince, Synthetic No. 2
- Quince, Synthetic No. 3
- Raisin, Synthetic
- Raspberry, Extract (Natural) No. 1
- Raspberry, Extract (Natural) No. 2

- Raspberry, Extract (Natural) No. 3
- Raspberry, Imitation No. 1
- Raspberry, Imitation No. 2
- Raspberry, Imitation No. 3
- Raspberry, Imitation No. 4
- Raspberry, Imitation No. 5
- Raspberry, Imitation No. 6
- Raspberry, Imitation No. 7
- Raspberry, Imitation No. 8
- Raspberry, Imitation No. 9
- Raspberry, Imitation No. 10
- Raspberry, Synthetic No. 1
- Raspberry, Synthetic No. 2
- Raspberry, Synthetic No. 3
- Raspberry, Synthetic No. 4
- Raspberry, Synthetic No. 5
- Raspberry, Synthetic No. 6
- Raspberry, Synthetic No. 7
- Raspberry, Synthetic No. 8
- Raspberry, Synthetic No. 9
- Raspberry, Synthetic No. 10
- Raspberry, Synthetic No. 11
- Raspberry, Synthetic No. 12
- Raspberry, Synthetic No. 13
- Ratafia
- Rhodium
- Root Beer, Imitation

Rose, Flavor

Rose, Liquor

Rosemary, Chili

Rum, Ether Flavor

Rum, Imitation No. 1

Rum, Imitation No. 2

Rum, Imitation No. 3

Rum, Imitation No. 4

Rum, Imitation No. 5

Rum, Jamaica No. 1

Rum, Jamaica, No. 2

Rum, Oil

Rum, Synthetic No. 1

Rum, Synthetic No. 2

Rum, Synthetic No. 3

Saint John Bread (Carob), Tincture

Sarsaparilla, Imitation No. 1

Sarsaparilla, Imitation No. 2

Sassafras, Imitation No. 1

Sassafras, Imitation No. 2

Sassafras, Imitation No. 3

Sassafras, Imitation No. 4

Sassafras, Synthetic No. 1

Sassafras, Synthetic No. 2

Sauce Flavors

Sauce, Flavor Base

- Sauce, Soy Flavor Savory, Oil No. 1 Savory, Oil No. 2 Scotch, Smoke Type Taste Smoke, Flavor Smoke, Flavor for Fish (Seasoning) Smoke, Flavor for Meat Spearmint-wintergreen-peppermint No. 1 Spearmint-wintergreen-peppermint No. 2 Spice, Imitation No. 1 Spice, Imitation No. 2 Strawberry, Extract (Natural) No. 1 Strawberry, Extract (Natural) No. 2 Strawberry, Imitation No. 1 Strawberry, Imitation No. 2 Strawberry, Imitation No. 3 Strawberry, Imitation No. 4 Strawberry, Imitation No. 5 Strawberry, Imitation No. 6 Strawberry, Imitation No. 7 Strawberry, Imitation No. 8 Strawberry, Imitation No. 9 Strawberry, Imitation No. 10 Strawberry, Imitation No. 11 Strawberry, Synthetic No. 1 Strawberry, Synthetic No. 2
- Strawberry, Synthetic No. 3

- Strawberry, Synthetic No. 4
- Strawberry, Synthetic No. 5
- Strawberry, Synthetic No. 6
- Strawberry, Synthetic No. 7
- Strawberry, Synthetic No. 8
- Strawberry, Synthetic No. 9
- Strawberry, Synthetic No. 10 General Base
- Strawberry, Synthetic No. 11
- Strawberry, Synthetic No. 12
- Strawberry, Synthetic No. 13
- Syrup, Base for Flavor (Pancake)
- Syrup, Simple, Base for Flavor
- Tamarind, Extract (Natural)
- Tangerine, Extract (Natural)
- Tangerine, Imitation No. 1
- Tangerine, Imitation No. 2
- Tarragon
- Tea, Imitation No. 1
- Tea, Imitation No. 2
- Tea, Natural No. 1
- Tea, Natural No. 2
- Tea, Natural No. 3
- Tobacco Formulas for Improving Flavor and Odor
- Species of Natural Tobacco
- Tobacco, Chewing, Flavor No. 1
- Tobacco, Chewing, Flavor No. 2

- Tobacco, Cigarette, Flavor No. 1
- Tobacco, Cigarette, Flavor No. 2
- Tobacco, Cigarette, Flavor No. 3
- Tobacco, Flavor General
- Tobacco, Flavor No. 1
- Tobacco, Flavor No. 2
- Tobacco, Flavor No. 3
- Tobacco Flavor No. 4
- Tobacco, Flavor No. 5
- Tobacco, Flavor No. 6
- Tobacco, Flavor No. 7
- Tobacco, Flavor No. 8
- Tobacco, Flavor No. 9
- Tutti Frutti
- Valerian, Root, Extract (Natural)
- Vanilla
- Vanilla, Concentrated Flavor
- Vanilla, Flavor No. 1
- Vanilla, Flavor No. 2
- Vanilla, Flavor No. 3
- Vanilla, Imitation No. 1
- Vanilla, Imitation No. 2
- Vanilla, Beans, Extract (Natural) No. 1
- Vanilla Beans, Extract (Natural) No. 2
- Vanilla Beans, Imitation
- Vanilla Beans, Tincture No. 1
- Vanilla Beans, Tincture No. 2

Vanillin, Crystal (Partial)

Vanillin, Flavored Mixture

Vanillin No. 1

- Vanillin No. 2 (Ester Mixture)
- Vanillin, Super Odor
- Vanillin, Water Soluble

Vermouth

- Vermouth, Italian Type No. 1
- Vermouth, Italian Type No. 2
- Vinegar, Spiced

Violet, Flavor

- Walnut, Extract (Natural)
- Walnut, Flavor For Ketchup
- Walnut, Imitation No. 1
- Walnut, Imitation No. 2
- Walnut, Imitation No. 3
- Walnut, Imitation No. 4
- Walnut, Imitation No. 5
- Walnut, Imitation No. 6

Wintergreen

- Wintergreen, Synthetic No. 1
- Wintergreen, Synthetic No. 2
- Wintergreen, Synthetic No. 3
- Woodruff, Extract (Natural)
- Woodruff, Imitation
- Woodruff, Synthetic No. 1

Woodruff, Synthetic No. 2

Worcestershire Sauce No. 1

Worcestershire Sauce No. 2

# About NIIR

NIR PROJECT CONSULTANCY SERVICES (NPCS) is a reliable name in the industrial world for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our various services are: Detailed Project Report, Business Plan for Manufacturing Plant, Start-up Ideas, Business Ideas for Entrepreneurs, Start up Business Opportunities, entrepreneurship projects, Successful Business Plan, Industry Trends, Market Research, Manufacturing Process, Machinery, Raw Materials, project report, Cost and Revenue, Pre-feasibility study for Profitable Manufacturing Business, Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Business Opportunities, Investment Opportunities for Most Profitable Business in India, Manufacturing Business Ideas, Preparation of Project Profile, Pre-Investment and Pre-Feasibility Study, Market Research Study, Preparation of Techno-Economic Feasibility Report, Identification and Section of Plant, Process, Equipment, General Guidance, Startup Help, Technical and Commercial Counseling for setting up new industrial project and Most Profitable Small Scale Business.

NPCS also publishes varies process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.

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