Definitions

Natural Blends, Natural Fragrances, Synthetic Fragrance: Absolute

Natural Fragrances:

The International Fragrance Association (IFRA) only allows fragrances marked as "natural" to contain fragrance ingredients that correspond to the terms and definitions laid down in the International Organization for Standardization's ISO 9235:1997 (Aromatic natural raw materials – Vocabulary), or substances already present in them and isolated from them by purely physical means.

In general, ISO 9235 defines natural aromatic raw materials as being physically obtained from plants using distillation, expression and extraction. Synthetically reconstituted essential oils, synthetic nature-identical ingredients and intentionally chemically modified natural raw materials (e.g. chemical acetylation of essential oil) cannot be used in fragrance compounds that are described as being natural. The Natural Products Association goes one step further to not permit the use of petrochemical solvents in the extraction process, so concretes and absolutes made using hexane are not permitted. Natural fragrances are complex compositions of natural aromatic raw materials such as essential oils, fractions of essential oils, isolates, exudates such as resins, distillates, extracts and volatile concentrates.

Natural Blends:

are blends of oils from various natural sources to achieve an economical product that resembles the fragrance of the pure essential oil. Natural Blends are all natural, and do not contain any synthetic ingredients or aromatic compounds, nor do they contain artificial flavors or colorants. They are not therapeutic grade, but they are suitable for all-natural product preparations and can be used to fragrance various cosmetic products.

Synthetic Fragrance:

are complex compounds comprised of aromatic raw materials, at least one of which is not a natural aromatic raw material as defined above. A fragrance may contain natural aromatics in combination with synthetics, or could be 100% synthetic. Synthetic aromatic raw materials have either been chemically created (mostly from petroleum), or started as naturals and have had their chemical structure modified. Synthetic aromatic raw materials fall into the categories of chemically modified natural raw materials, nature identical raw materials and aroma chemicals that do not exist in nature

Chemically modified natural raw materials:

The starting point for these materials is natural, but chemical processes (such as acetylation) have been employed to change the chemical structure of the raw material, rendering it non-natural.

Nature identical raw materials:

These are synthetics, created through reactive chemistry that have the same chemical structure of naturals, but do not come from botanicals. Most often, the starting point for these aroma chemicals is petroleum. A good example is synthetic linalool, which is chemically identical to linalool that is fractionally distilled from lavender oil, but it is not derived from a plant.

Aroma chemicals that do not exist in nature:

These are synthetic aroma chemicals produced through chemical reactions that have no corresponding natural aroma chemical. An example is methyl dihydrojasmonate, a soft diffusive floral note.

Natural vs. Synthetic Fragrance

Natural fragrances have greater perceived value as they are believed to be greener and more sustainable by many consumers. They are often perceived to be safer and more healthful and therapeutic. Some of these consumer perceptions are not necessarily accurate, but they drive demand for naturals. Natural fragrances are generally made from ingredients harvested from sustainably grown plants rather than from petrochemicals. Synthetic fragrances can be stronger, longer lasting, more complex and sophisticated and less expensive than natural fragrances. Although the palette of natural ingredients from which the perfumer can draw has increased substantially of

late, there are many more synthetic aroma chemicals available, allowing the perfumer greater creative freedom. Synthetic fragrances are easier to manufacture as their components are more reproducible from lot to lot. Despite the technical advantages of synthetics, demand for natural aromatics continues to increase rapidly.

Absolute (perfumery)

Used in perfumery and aromatherapy, absolutes are similar to essential oils. They are concentrated, highly aromatic, oily mixtures extracted from plants. Whereas essential oils are produced by distillation, boiling or pressing, absolutes are produced through solvent extraction, or more traditionally, through enfleurage. First, plant material is extracted with a hydrocarbon solvent, such as hexane, to yield a concrete. The concrete is then extracted with ethanol. The ethanol extract is cooled (e.g., to –15 °C) to solidify waxes, and cold filtered to yield a liquid extract. When the ethanol evaporates, an oil—the absolute—is left behind. Traditionally, the absolute was obtained by enfleurage, where the resulting pommade was extracted with ethanol to yield the absolute. The difference between absolutes and **essential oils** is the method of obtaining the **oil**. Absolutes are obtained through solvent extraction. ... Steam distilled Rose **essential oil** (also known as Rose Otto) has a very different aroma than Rose **absolute**, and is not as desirable in perfumery as Rose **absolute** is.