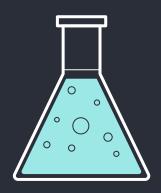


The MAGIC behind smelling GOOD

# **Basic Chemistry of Fragrances**

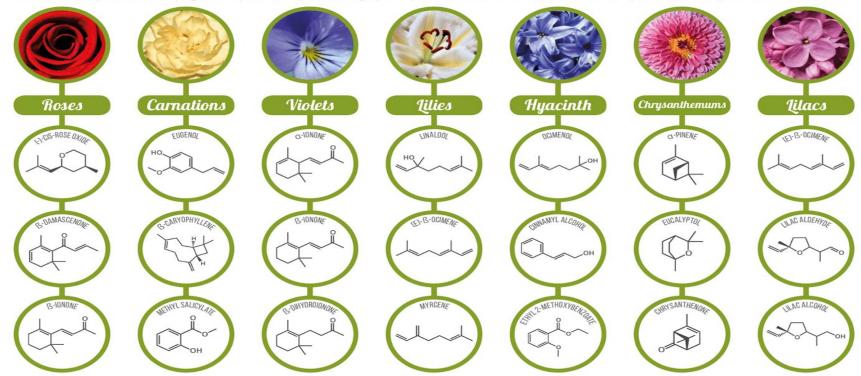
## **Essential Concepts**

- Fragrances are composed of volatile compounds and molecules that readily evaporate to produce scent.
- They belong to classes including: aldehydes, esters, and terpenes.



#### **AROMA COMPOUNDS IN COMMON FLOWERS**

A wide range of compounds contribute to the scents of flowers. This graphic looks at a selection of major contributors for a number of common flowers. Note that volatile aroma compounds can vary significantly between species; this graphic represents a broad overview of common components, and is by no means definitive!







## **Molecular Structure**



## **Scent and Structure**

#### Influence of Molecular Structure:

- The unique scent of a compound is intricately tied to its molecular structure.
- Changes in structure, even subtle ones, can result in vastly different aromatic profiles.

#### Stereoisomers and Scent Perception:

 Stereoisomers, molecules with the same molecular formula but different spatial arrangements.

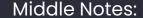
# **Perfume Composition**



Composition Breakdown: Top, Middle, and Base Notes:



Compounds: Light and volatile compounds that evaporate quickly..



Compounds: More complex and balanced aromas.

Base Notes:

Compounds: Heavier, less volatile molecules that evaporate slowly.



0



# Smell good.<sup>4</sup> I not bad





