# $P_{11}$

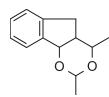
#### Perfumery Use

- > key ingredient for floral creations
- > imparts naturalness to white flowers
- ideal link between fresh citrus and transparent floral elements
- > blends very well with dry woody ingredients
- > recommended use level: 0.5 20 %



#### **Chemical Structure**

> 2,4-Dimethyl-4,4a,5,9b-tetrahydroindeno[1,2-d][1,3]dioxine



$$C_{13}H_{16}O_{2}$$



 Floral, Magnolia, Peony, Lily of the Valley, Grapefruit

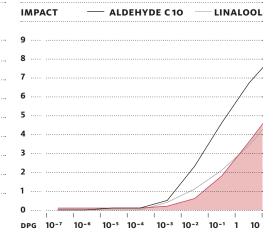


HOURS			DAYS			MONTHS			
∢1	3	10	1	3	10	1	3	>3	

## Product Data

_ ~-	
> APPEARANCE	clear, colorless to pale yellow liquid
> GC PURITY	min. 98% (∑ isomers)
> FLASH POINT	>100°C
> MW	204.3 g/mol
> BP	287.2°C
› LOG P (K <sub>ow</sub> )	2.67
> STABILIZER	no
> OCC. IN NATURE	no
> CHEM. CLASS.	acetal

# Dose Response



## Stability

DOS. %	3 MONTHS AT 40°C	PH	- DISCOLORATION	+	-	ODOR
> 4.0	Eau de Toilette	_				
> 1.2	Soap	9 – 10				
> 1.0	AP Roll-On 15% ACH	4				
> 1.0	Deostick, Stearate	8.5				
> 0.5	Shampoo/Shower Gel	6				
> 0.4	Hair Conditioner	4				
> 0.3	Body Lotion	6.5				
> 0.6	Fabric Softener Conc.	2.5				
> 0.5	Detergent Heavy Duty Liquid	8.5				
> 0.3	Detergent Powder Conc.	10				
> 8.0	Rimblock Liquid	7				
> 0.3	Cleaner APC Liquid	8 – 10				
> 0.3	Cleaner Liquid Citric Acid	2				

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