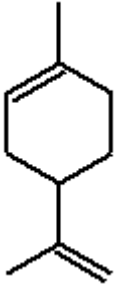


Limonene

CAS N°:	138-86-3	Empirical formula:	C ₁₀ H ₁₄
Structure:			
Synonyms:			

History:	Initial reviews:	December 1995		
	Current revision date:	Not applicable		
	Implementation date:	For new submissions*:	Not applicable	
		For existing fragrance compounds*:	Not applicable	
Next review date	Not applicable			

* This date applies to the supply of fragrance compounds (formulas) only, not to the finished products in the marketplace.

RECOMMENDATION:

SPECIFICATION

RESTRICTIONS:

Limits in the finished product:			
<u>Skin contact products:</u>			
Leave on products:	N/A	Rinse-off products:	N/A
		<i>Including household cleaning products</i>	
<u>Non skin contact products:</u>	N/A		
Note box:			
Fragrance material specifications:	<p><i>d</i>-, <i>l</i>- and <i>dl</i>-Limonene and natural products containing substantial amounts of it, should only be used when the level of peroxides is kept to the lowest practical level, for instance by adding antioxidants at the time of production. Such products should have a peroxide value of less than 20 millimoles peroxides per liter, determined according to the FMA method, which can be downloaded from the IFRA website (see Analytical Methods).</p>		

Limonene**CONTRIBUTION FROM OTHER SOURCES:**

N/A

CRITICAL EFFECT:**SENSITIZATION****REFERENCES:**

This recommendation is based on the published literature, mentioning sensitizing properties when containing peroxides and oxidation products. (D.L.J. Opdyke(1975), Fd. Cosmet. Toxicol. 13,825).