

Farnesol

CAS-No.: 4602-84-0

106-28-5 3790-71-4 16106-95-9 3879-60-5

The scope of this Standard includes, but is not limited to the CAS number(s) indicated above; any other CAS number(s) used to identify this fragrance ingredient should be considered in scope as well.

Synonyms: Farnesol

2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl-

Farnesyl alcohol

Trimethyl dodecatrienol

3,7,11-Trimethyl-2,6,10-dodecatrien-1-ol

trans-trans-Farnesol cis-trans-Farnesol 2Z,6Z-Farnesol cis-cis-Farnesol 2-trans,6-cis-Farnesol

History:	Publication date:	2020 (Amendment 49)	Previous	1979
		,	Publications:	1980
				2002
				2006

	For new creation*:	February 10, 2021
dates:	For existing creation*:	February 10, 2022
	*These dates apply to the supply of fragrance mixtures (formulas) only, not to the	
	finished consumer products in the marketplace.	

RECOMMENDATION: RESTRICTION / SPECIFICATION

MAXIMUM ACCEPTABLE CONCENTRATIONS IN THE FINISHED PRODUCT (%):			
Category 1	0.21 %	Category 7A	2.4 %
Category 2	0.062 %	Category 7B	2.4 %
Category 3	1.2 %	Category 8	0.12 %
Category 4	1.2 %	Category 9	2.3 %
Category 5A	0.29 %	Category 10A	8.1 %



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Category 5B	0.29 %	Category 10B	8.1 %
Category 5C	0.29 %	Category 11A	4.5 %
Category 5D	0.29 %	Category 11B	4.5 %
Category 6	0.68 %	Category 12	No Restriction

FRAGRANCE INGREDIENT SPECIFICATION:

Farnesol should only be used as a fragrance ingredient if it contains a minimum of 96% of farnesol isomers as determined by GLC.

FLAVOR REQUIREMENTS:

Due to the possible ingestion of small amounts of fragrance ingredients from their use in products in Categories 1 and 6, materials must not only comply with IFRA Standards but must also be recognized as safe as a flavoring ingredient as defined by the IOFI Code of Practice (www.iofi.org). For more details see chapter 1 of the Guidance for the use of IFRA Standards.

CONTRIBUTIONS FROM OTHER SOURCES:

SEE ANNEX ON CONTRIBUTIONS FROM OTHER SOURCES

INTRINSIC PROPERTY MANAGEMENT:

DRIVING RISK

DERMAL SENSITIZATION

RIFM SUMMARIES:

Maximum acceptable concentrations are based on a comprehensive safety assessment, considering various endpoints. Depending on the outcome of the safety assessment, it might be one or more endpoint(s) that will drive the derivation of the concentration levels. If more than one endpoint is of relevance, the maximum acceptable concentrations for each product category are derived from comparing maximum permitted level per endpoint consideration (e.g. dermal sensitization and/or systemic toxicity). Such maximum acceptable concentrations correspond to the lowest level obtained per category.

Additional information is available in the RIFM safety assessment for Farnesol, which can be downloaded from the RIFM Fragrance Material Safety Assessment Center: http://fragrancematerialsafetyresource.elsevier.com/.

EXPERT PANEL FOR FRAGRANCE SAFETY RATIONALE / CONCLUSION:

The Expert Panel for Fragrance Safety reviewed all the available data for Farnesol and recommends the concentrations for the 12 different product categories, which are the maximum acceptable concentrations of Farnesol in the various product categories.

In addition, they recommend to use Farnesol according to the specification above mentioned.

REFERENCES:



Farnesol

The IFRA Standard on Farnesol is based on at least one of the following publications:

- The RIFM Safety Assessment on Farnesol if available at the RIFM Fragrance Material Safety Assessment Center: http://fragrancematerialsafetyresource.elsevier.com
- Api A.M., Belsito D., Bruze M., Cadby P., Calow P., Dagli M. L., Dekant W., Dent M., Ellis G., Fryer A. D., Fukayama M., Griem P., Hickey C., Kromidas L., Lalko J., Liebler D.C., Miyachi Y., Politano V.T., Renskers K., Ritacco G., Salvito D., Schultz T.W., Sipes I. G., Smith B., Vitale D., Wilcox D.K. (2015). Criteria for the Research Institute for Fragrance Materials, Inc. (RIFM) safety evaluation process for fragrance ingredients. Food Chem Toxicol. 2015 Aug;82 Suppl:S1-S19 (http://fragrancematerialsafetyresource.elsevier.com/sites/default/files/Criteria_Document_Final.pdf).
- Salvito D.T., Senna R. J., Federle T.W. (2002). A framework for prioritizing fragrance materials for aquatic risk assessment. Environ Toxicol Chem. 2002;21:1301-1308 (https://www.ncbi.nlm.nih.gov/pubmed/12069318).

Additional information on the application of IFRA Standards is available in the Guidance for the use of IFRA Standards, publicly available at www.ifrafragrance.org.