Ethyl nonanoate

Synonyms

ETHYL PELARGONATE

CAS Reference 123-29-5

Food Legislation

Council of Europe (CoE)		
Number	Comment	
388	Listed by the Council of Europe as acceptable for use in food.	

US Food and Drug Administration		
Number	Comment	
172.515	Approved by the US FDA. FDA 21 CFR 172.515	

Joint FAO/WHO Expert Committee on Food Additives (JECFA)					
Number	ADI	Comment			
34	0-2.5 mg/kg bw/day	No safety concern at current levels of intake when used as a flavouring agent.			

FEMA		
FEMA No.	Comment	
2447	Generally recognised as safe as a flavour ingredient	

Natural Occurrence and Use in Food

Found in apple, banana, grape, nectarine; used in candy, baked goods.

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Tobacco Product Related Chemical and Biological Studies for Ingredients Added in a Mixture

Smoke Chemistry							
Published Source		Comment					
BAT	0.001	At maximum application level this ingredient is not associated with significant increases in levels of Hoffmann analytes in smoke.					
Ames Activity							
Published Source	Level Tested %	Comment					
BAT	0.001	Within the sensitivity and specificity of the system the Ames activity of the cigarette smoke condensate was not increased by the addition of the ingredient.					
Micronucleus							
Published Source	Level Tested %	Comment					
BAT	0.001	Within the sensitivity of the in vitro micronucleus assay the activity of the cigaret smoke condensate was not increased by the addition of the ingredient.					
Neutral Red							
Published Source	Level Tested %	Comment					
BAT	0.001	Within the sensitivity of the test system the ir vitro cytotoxicity of the cigarette smoke condensate was not increased by the additio of the ingredient.					
Inhalation							
Published Source	Level Tested %	Comment					
BAT	0.001	The results indicate that the addition of the ingredient had no discernible effect on the inhalation toxicity of mainstream smoke.					

References

Baker RR, Pereira da Silva JR, Smith G. The effect of tobacco ingredients on smoke chemistry. Part I: Flavourings and additives. Food Chem Toxicol. 2004; 42 Suppl:S3-37.

Baker RR, Pereira da Silva JR, Smith G. The effect of tobacco ingredients on smoke chemistry. Part II: casing ingredients. Food Chem Toxicol. 2004; 42 Suppl:S39-52.

Baker RR, Massey ED, Smith G. An overview of the effects of tobacco ingredients on smoke chemistry and toxicity. Food Chem Toxicol. 2004; 42 Suppl:S53-83.

Ethyl nonanoate <u>Tobacco Product Related Chemical and Biological</u> <u>Studies for Ingredients Tested Singly</u>

References

Baker RR, Bishop LJ. The pyrolysis of tobacco ingredients. J. Anal. Appl. Pyrolysis 2004, 71, 223-311.

Ethyl nonanoate <u>Toxicological Data on the Unburnt Ingredient</u>

In vivo

Species	Test conditions	Endpoint	Result	Reference
Rat	Dietary Exposure to 0 or 10000 ppm for 16 weeks Equivalent to 0 or 500 mg/kg bw/day.	NOAEL	500 mg/kg bw/day	EFSA, 2007

References

The EFSA Journal (2008) 709-60. Flavouring Group Evaluation 2, Revision 1: Branched- and straight-chain aliphatic saturated primary alcohols and related esters of primary alcohols and straight-chain carboxylic acids and one straight-chain aldehyde from chemical groups 1 and 2

See:

 $\underline{http://www.efsa.europa.eu/sites/default/files/scientific_output/files/main_documents/709.}\\ \underline{pdf}$