Botanical Source

Synonyms METHYL ACETOPHENONE

METHYL ACETOPHENONE (para-)

IUPAC Name

CAS Reference 122-00-9

E Number

Food Legislation

Council of Europe (CoE)			
Number	Comment		
156	Listed by the Council of Europe as acceptable for use in food at up to 5 ppm.		

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	
807	-	No safety concern at current levels of intake when used as a flavouring agent.	

FEMA		
FEMA No.	Comment	
2677	Generally recognised as safe as a flavour ingredient:GRAS List Number 4	

Natural Occurrence and Use in Food

Found in hop oil, cocoa powder, black currant; used in chewing gum.

Estimated Intake from Food and Drink			
Daily Intake mg/kg/day FEMA Possible Average Daily Intake mg			
0.0001412 0.991			

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

Smoke Chemistry			
Published Source Level Tested %		Comment	
BAT	0.00100	At maximum application level this ingredient is not associated with significant increases in levels of Hoffmann analytes in smoke.	
Philip Morris	0.00390	An overall assessment of the data suggests that this ingredient did not add to the toxicity of smoke.	

Ames Activity			
Published Source Level Tested %		Comment	
ВАТ	0.00100	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.	
Philip Morris 0.00390		Within the sensitivity and specificity of the system the Ames activity of the cigarette smoke was not increased by the addition of the ingredient.	

Micronucleus			
Published Source	Level Tested %	Comment	
ВАТ	0.00100	Within the sensitivity of the in vitro micronucleus assay the activity of the cigarette smoke condensate was not increased by the addition of the ingredient.	

Neutral Red			
Published Source Level Tested %		Comment	
ВАТ	0.00100	Within the sensitivity of the test system the in vitro cytotoxicity of the cigarette smoke condensate was not increased by the addition of the ingredient.	
Philip Morris	0.00390	Within the sensitivity of the test system the in vitro cytotoxicity of the cigarette smoke was not increased by the addition of the ingredient.	

Inhalation			
Published Source Level Tested %		Comment	
BAT 0.00100		The results indicate that the addition of the ingredient had no discernible effect on the inhalation toxicity of mainstream smoke.	
Philip Morris 0.00390		The data indicate that the addition of the ingredient, when added with one of three groups, did not increase the inhalation toxicity of the smoke.	

Mouse Skin Painting			
Published Source	Level Tested %	Comment	

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.

Carmines EL. Evaluation of the potential effects of ingredients added to cigarettes. Part 1: cigarette design, testing approach, and review of results. Food Chem Toxicol. 2002; 40(1): 77-91.

Rustemeier K, Stabbert R, Haussmann HJ, Roemer E, Carmines EL. Evaluation of the potential effects of ingredients added to cigarettes. Part 2: chemical composition of mainstream smoke. Food Chem Toxicol. 2002; 40(1): 93-104.

Roemer E, Tewes FJ, Meisgen TJ, Veltel DJ, Carmines EL. Evaluation of the potential effects of ingredients added to cigarettes. Part 3: in vitro genotoxicity and cytotoxicity. Food Chem Toxicol. 2002; 40(1): 105-111.

Vanscheeuwijck PM, Teredesai A, Terpstra PM, Verbeeck J, Kuhl P, Gerstenberg B, Gebel S, Carmines EL. Evaluation of the potential effects of ingredients added to cigarettes. Part 4: subchronic inhalation toxicity. Food Chem Toxicol. 2002; 40(1): 113-131.

Tobacco Product Related Chemical and Biological Studies for Ingredients Tested Singly

References

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

Toxicological Data on the Unburnt Ingredient

In a maximisation test, 25 subjects were tested with the material at a concentration of 6% in petrolatum. No sensitisation reactions were produced (Kligman, 1970).

Organis	Test	Rout	Reported Dose	Reference
m	Туре	е		
rat	LD ₅₀	oral	1400 mg/kg	Food and Cosmetics Toxicology. Vol. 12, Pg. 933, 1974

References

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Kligman A M (1970). Report to RIFM, 4 January (cited in Opdyke, 1974