

Substance Information Document

Ethyl phenylacetate

1. Substance identity

Name	ethyl phenylacetate
Synonyms	ethyl 2-phenylacetate; benzeneacetic acid, ethyl ester; ethyl phenacetate; ethyl α -toluate
IUPAC Name	ethyl 2-phenylacetate
CAS	101-97-3

2. Toxicological information

Ethyl phenylacetate was considered to be non-clastogenic in the *in vitro* chromosome aberration assay. Additionally, in a mutagenesis study with six Salmonella strains with and without metabolic activation no mutagenic effects were observed.

The oral LD₅₀ in rats was determined to 3300 mg/kg bw.

There are no reproductive toxicity data on ethyl phenylacetate or any read-across materials. There are no repeated dose toxicity data on ethyl phenylacetate, and no inhalation data available.

Based on weight of evidence from structural analysis, human studies and read-across methyl benzoate, ethyl phenylacetate does not present a safety concern for skin sensitization under the current, declared levels of use, and is not expected to present a concern for phototoxicity or photo allergenicity based on UV spectra. In a human maximization test, no skin sensitization reactions were observed with 8% or 5520 $\mu\text{g}/\text{cm}^2$ ethyl phenylacetate in petrolatum.

JECFA	WHO_TRS_913.pdf;jsessionid=E60A295D63A711ADA24680D211126D48
FEMA	ETHYL PHENYLACETATE FEMA (femaflavor.org)
EFSA	Flavouring Group Evaluation 53, Revision 1 (FGE.53Rev1): Consideration of phenethyl alcohol, aldehyde, acid and related acetals and esters evaluated by JECFA (59th meeting) and structurally related to phenethyl alcohol, aldehyde, esters and related phenylacetic acid esters evaluated by EFSA in FGE.14Rev1 (2009) and one phenoxyethyl ester evaluated in FGE.23Rev1 (2008) - - 2009 - EFSA Journal - Wiley Online Library; Flavouring Group Evaluation 14, Revision 1 (FGE.14Rev1): Phenethyl alcohol, aldehyde, acetals, carboxylic acid and related esters from chemical group 15 and 22 - Opinion of the Scientific Panel on Food Additives, Flavourings, Processing Aids and Materials in Contact with Food (wiley.com)

	Flavouring Group Evaluation 55 (FGE.55): Consideration of phenyl-substituted aliphatic alcohols and related aldehydes and esters evaluated by JECFA (63rd meeting) structurally related to phenethyl alcohol, aldehyde, esters and related phenylacetic acid esters evaluated by EFSA in FGE.14 (2005) and aryl-substituted saturated and unsaturated primary alcohol/aldehyde/acid/ester derivatives evaluated by EFSA in FGE.15 (2005) (Commission Regulation (EC) No 1565/2000 of 18 July 2000) - Opinion of the Scientific Panel on Food Additives, Flavourings, Processing Aids and Materials in contact with Food (AFC) (wiley.com)
ECHA – REACH dossier	Registration Dossier - ECHA (europa.eu)
PUBCHEM	Ethyl phenylacetate C10H12O2 - PubChem (nih.gov)
CIR	
OSHA	

3. Addictiveness and attractiveness

No substance specific information was found.

SCENIHR	
EMA	
PUBMED	