

Substance Information Document

Rhodinol**1. Substance identity**

Name	Rhodinol
Synonyms	Alpha-citronellol 3,7-Dimethyl-(6- or 7-)octen-1-ol (3S)-3,7-dimethyloct-7-en-1-ol FEMA No. 2980
IUPAC Name	(3S)-3,7-dimethyloct-7-en-1-ol
CAS	6812-78-8

2. Toxicological information

Rhodinol is a fragrance ingredient used in many fragrance compounds.

Toxicology data on rhodinol were reported in a publication by RIFM (Lapczynski et al., 2008, Food and Chemical Toxicology 46 (2008) S259–S262).

Rhodinol (5%) was tested in a patch test in humans (9 applications of 24 h over 3 weeks) producing irritation in 18/40 volunteers; in a human maximization study (130 participants), 5% rhodinol did not produce irritation reactions. Slight to moderate erythema and edema was observed in rabbits exposed to rhodinol via dermal route at all dose levels. No substance-specific data for eye irritation were identified.

An LD₅₀ of >5000 mg/kg bw was established in an acute oral rat toxicity study. A dermal LD₅₀ of 3600 mg/kg bw was determined in rabbits.

No substance-specific repeated-dose toxicity studies were identified.

No substance-specific reproductive and developmental toxicity studies were identified.

Rhodinol is a Class I Cramer compound, with dietary intake below threshold. EFSA concluded that rhodinol presents no concern at the current level of intake. EFSA reported that rhodinol is not posing genotoxicity concerns based on consideration of structural class, metabolism data, the absence of genotoxic potential in vivo and the MSDI exposure estimates of the substances analyzed in their scientific opinion on aliphatic, branched-chain saturated and unsaturated alcohols, aldehydes, acids and related esters.

JECFA	ALIPHATIC BRANCHED-CHAIN SATURATED AND UNSATURATED ALCOHOLS, ALDEHYDES, ACIDS, AND RELATED ESTERS (JECFA 52, 2004) (inchem.org)
FEMA	RHODINOL FEMA (femaflavor.org)
EFSA	Scientific Opinion on Flavouring Group Evaluation 72, Revision 2 (FGE.72Rev2): consideration of aliphatic, branched-chain saturated

	and unsaturated alcohols, aldehydes, acids and related esters evaluated by JECFA (61st, 68th and 69th meetings) and structurally related to flavouring substances in FGE.05Rev3 (wiley.com)
ECHA – REACH dossier	-
PUBCHEM	Rhodinol C10H20O - PubChem (nih.gov)
CIR	-
OSHA	-

3. Addictiveness and attractiveness

No substance-specific data were identified.

SCENIHR	-
EMA	-
PUBMED	-