

## PURAC® HS 88

### Description

PURAC HS is the natural L(+)-lactic acid, which is produced by fermentation from sugar. It has a mild acid taste and is widely used in food, cosmetic and chemical industries. PURAC's main functions are preservation, pH-regulation, flavoring, humectancy, sequestration and as natural body constituent in cosmetic products.

### Specification

Product	L(+)-lactic acid
Form	liquid, solution in water
Assay	88.0-89.0% (w/w)
Labelled concentration	min. 88.0% (w/w)
L(+)- content (S)	min. 97%

### Visual/sensoric characteristics

Clarity of solution	clear
Color fresh	max. 35 apha
Color after heating	max. 50 apha
Odor	mild, typical acid
Taste	mild acid

### Identification

Solubility	soluble in water and ethanol
Positive test for acid	1 in 10 in water litmus paper
Positive test for lactate	passes test

### Purity

Sulphated ash	max. 0.05% w/w
Chloride	max. 10 mg/kg + passes test*
Sulphate	max. 10 mg/kg + passes test*
Arsenic	max. 1 mg/kg
Heavy metals	max. 5 mg/kg
Iron	max. 5 mg/kg
Lead	max. 0.5 mg/kg
Mercury	max. 1 mg/kg
Cyanide	max. 1 mg/kg + passes test*
Citric, oxalic, phosphoric, tartaric	passes test*
Sugars/reducing substances	passes test*
Readily carbonizing substances	passes test*
Volatile fatty acids	passes test*
Methanol	max.0.05% w/w
Ether insolubles	passes test*

### Physical-chemical properties

Molecular formula	CH <sub>3</sub> CHOHCOOH
Molecular weight	90
Chemical name	2-hydroxypropionic acid

Copyright © PURAC. All rights reserved. No part of this publication may be copied, downloaded, reproduced, stored in a retrieval system or transmitted in any form by any means, electronic, mechanical, photocopied, recorded or otherwise, without permission of the publisher. No representation or warranty is made as to the truth or accuracy of any data, information or opinions contained herein or as to their suitability for any purpose, condition or application. None of the data, information or opinions contained herein may be relied upon for any purpose or reason. PURAC disclaims any liability, damages, losses or other consequences suffered or incurred in connection with the use of the data, information or opinions contained herein. In addition, nothing contained herein shall be construed as a recommendation to use any products in conflict with existing patents covering any material or its use.

For further information:

<http://www.purac.com/>

### Registration

CAS number	79-33-4 (general 50-21-5)
EEC Additive number	E 270
USA	GRAS
Complies with	FCC, USP, JSFA, JECFA
Complies with (except for assay)	EUSFA

### Remarks

- o passes test: see codices
- o Complies with latest version of:
  - o JECFA: Joint FAO/WHO Expert Committee on Food Additives; Codex Alimentarius
  - o EUSFA: EUSFA 96/77/EC
  - o FCC: Food Chemicals Codex
  - o USP: United States Pharmacopeia
  - o JSFA: Japan's Specifications and Standards for Food Additives
- o This product is heatstable.