

CONTROLLED COPY**INTEGRATED
SYSTEM****SUCROAL S.A.****TA-ESP-004****FINISHED PRODUCT. SPECIFICATION. NATURAL ACETIC ACID.****Version: 3****1. PRODUCT**

PRODUCT: NATURAL ACETIC ACID
SUCROAL CODE: PTA235001
CAS No. 64-19-7

2. DESCRIPTION

Natural Acetic Acid is a corrosive colorless liquid with characteristic odor and taste strongly acidic. It is completely soluble in water, alcohol, ether and benzene. It is produced by aerobic fermentation of ethyl alcohol into vinegar by the use of Acetobacter. It is then filtered and concentrated by distillation. The biotechnological process makes the produced acetic acid a natural product of high purity.

3. USES

Natural Acetic Acid is used for the development of formulations in the food industries, pharmaceutical and chemical industries where high purity is required and acceptance for human consumption. Diluted Acetic Acid is a natural preservative in the food industry, flavoring, stabilizer, emulsifier, pH adjuster in the process of curing and fermentation of food and pharmaceuticals. It is of great importance in the chemical synthesis industry especially for polymers and resins, due to the absence of heavy metals.

4. REQUIREMENTS AND SPECIFICATIONS

REQUIREMENTS	UNITS	SPECIFICATION	METHODS OF ANALYSIS
Assay	% w/w	min.99.5	Gas Chromatography
Water	% w/w	max. 0.5	Karl Fisher Titration
Relative Density (20/20 ° C)	-	1.049 – 1.055	Picnometry
Freezing Point	°C	min.15.8	USP
Aldehydes (as Acetaldehyde)	% w/w	max. 0.005	Gas Chromatography
Oxidation Time	Hrs	min.2	FCC -USP
Chlorides	Qualitative Test	Negative	USP
Sulfates	Qualitative Test	Negative	USP
Lead (Pb)	ppm	max. 0.5	FCC
Heavy Metals (as Pb)	ppm	max. 5	USP
Residue Non Volatile	% w/w	max. 0.005	FCC - USP
Color	APHA	max. 30	Comparison
Odor	-	Irritant	Comparison

Shelf Life: 24 months stored in sealed containers in a cold and dry place.

5. PACKING

Natural Acetic Acid is packed plastic drums in 60 kg or bulk stainless steel containers.

6. SAFETY

Corrosive liquid. View Sucroal MSDS [SS-HOJ-027](#).

This document is intended to provide general information about the product and its uses. Should not be construed as a guarantee of the suitability of its use for a particular application. SUCROAL S.A. shall not be liable for damage occasioned by the use of this product rely on this information, or subjective interpretations

SUCROAL S.A Recta Cali-Palmira km 18, Palmira-Colombia, América del sur, PBX: +57 2 4310500. Marketing 572 4310651.

Prepared by:	Alcochemical Quality	Date of issue: 2013-04-26
Approved by:	Quality Management	Last Review Date: 2013-04-26