

High purity hydrogen peroxide

PERSYNT® 300 LC is a specialty Hydrogen Peroxide Grade. PERSYNT® 300 LC is an aqueous solution of high quality highly purified hydrogen peroxide and characterized by low organic impurities content. PERSYNT® 300 LC is an environmental friendly powerful oxidizing agent, which is designed for high purity applications, such as synthesis of high purity chemicals and food additives, food processing or preparation of disinfecting topical solutions in medicine. Bleaching of various food stuffs, removing unwanted substances, e.g. sulphur dioxide, from food products, synthesis of organic peroxide initiators (e.g. MEK peroxide, benzoyl peroxide, lauryl peroxide), preparation of percarboxylic acids (e.g. peracetic acid) or epoxidized soybean oil plasticizers (epoxidation of fatty acid) or utilization as an oxidizing agent in catechol production (hydroxyllation), the manufacturing other fine chemicals (amine oxide surfactants; herbicides; penicillin precursor or various high purity epoxides and diols) exemplify the application range of the product.

PACKAGING

PERSYNT® 300 LC is available in 1100 kg plastic IBC-containers, tank containers, tank trucks.

STORAGE

PERSYNT® 300 LC has to be stored in original containers or tank farms in a cooled, vented and protected from the direct sun irradiation area. It is important to keep hydrogen peroxide protected from all types of contamination and away from of combustible/oxidizable materials. When stored properly in the originally sealed containers, the shelf life of PERSYNT® 300 LC is 12 months from the date of production.

PHYSICAL PROPERTIES

PERSYNT® 300 LC is a colorless clear liquid with light specific odor. PERSYNT® 300 LC is miscible with water in all proportions.

Freezing point, °C	-26
Boiling point, °C	106
Density 20°C, g/ml	1,111

CLASSIFICATION

CAS No.:	7722-84-1;
EINECS-No.:	231-765-0;
REACH-No.:	01-2119485845-22-XXXX

HAZARDS

PERSYNT® 3 LC is classified as non-dangerous. Improper handling may result in rapid decomposition. For detailed information to labeling, transport regulations, first aid and toxicology information refer to material safety data sheet, visit our homepage www.active-oxygens.com or contact us.

GHS - LABELING



TRANSPORTATION



STANDARD SPECIFICATION (*)

Parameter	Value	Unit	Method
H2O2-Content, (w/w)	≥ 30,0	%	AIAOWM11
Decomposition rate, (16h/96°C)	≤ 5	%	AIAOWM21
pH (directly measured)	≤ 3.5		AIAOWM30
typical analysis values(+)			
Residue on Evaporation	≤ 300 (+)	ppm	AIAOWN10
Acidity (as H2SO4)	≤ 0,025 (+)	%	AIAOWM40
Carbon(C)	≤ 100 (+)	ppm	AIAOWO30
Antimony (Sb)	≤ 1 (+)	ppm	AIAOWP30
Arsenic (As)	≤ 1 (+)	ppm	AIAOWP30
Lead (Pb)	≤ 1 (+)	ppm	AIAOWP30
Cadmium (Cd)	≤ 1 (+)	ppm	AIAOWP30
Chromium (Cr)	≤ 1 (+)	ppm	AIAOWP30
Mercury (Hg)	≤ 1 (+)	ppm	AIAOWP35
Selenium (Se)	≤ 1 (+)	ppm	AIAOWP30

(+) typical analysis values are not stated in the corresponding quality documents

(*) The specification is valid for product distribution in Europe and Middle East.

REGULATORY

PERSYNT® 300 LC complies with the requirements of the German Pharmacopoeia (DAB), the European Pharmacopoeia (Ph. Eur. 10) and the German Drinking Water Directive (EN DIN 902)

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