

PERSYNT® 500 B7

Hydrogen Peroxide for Cosmetics Formulations

PERSYNT® 500 B7 is a specialty Hydrogen Peroxide Grade. PERSYNT® 500 B7 is an aqueous solution of highly purified high quality hydrogen peroxide. The composition of PERSYNT® 500 B7 was specially designed for using as an ingredient in various cosmetic products and developed in respect to the current european cosmetic regulations. PERSYNT® 500 B7 is recommended for use in hair coloring and styling formulations, teeth or nail whitening compositions as well as dental hygiene products.

For more detailed information please visit our home page in Internet www.evonik.com/H2O2 or contact us.

Standard specification(*)

Parameter	Value	Unit	Method
H2O2-Content, (w/w)	49,5 - 49,9	%	AIAOWM11
Decomposition rate, (16h/96°C)	≤ 5,0	%	AIAOWM21
pH (directly measured)	≤ 4,0		AIAOWM30
typical analytical Values			
Residue on Evaporation	≤ 300 (+)	ppm	AIAOWN10
Acidity (as H2SO4)	≤ 0,025 (+)	%	AIAOWM40
Carbon (C)	≤ 100 (+)	ppm	AIAOWO30
Antimony (Sb)	≤ 1,0 (+)	ppm	AIAOWP30
Arsenic (As)	≤ 1,0 (+)	ppm	AIAOWP30
Cadmium (Cd)	≤ 1,0 (+)	ppm	AIAOWP30
Chromium (Cr)	≤ 1,0 (+)	ppm	AIAOWP30
Iron (Fe)	≤ 0,5 (+)	ppm	AIAOWP30
Lead (Pb)	≤ 1,0 (+)	ppm	AIAOWP30
Nickel (Ni)	≤ 1,0 (+)	ppm	AIAOWP30
Mercury (Hg)	≤ 1,0 (+)	ppm	AIAOWP35
Selen (Se)	≤ 1,0 (+)	ppm	AIAOWP30

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

Except concentration PERSYNT® 500 B7 complies with the requirements of the German Pharmacopoeia (DAB-10), the European Pharmacopoeia (Ph. Eur. 7) and the German Drinking Water Directive (EN DIN 902).

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

Physical properties

PERSYNT® 500 B7 is a colorless clear liquid with light specific odor. PERSYNT® 500 B7 is miscible with water in all proportions.

Freezing point, °C -52

Boiling point, °C 114

Density 20°C, g/ml 1,194

Classification

CAS No.: 7722-84-1

EINECS-No.: 231-765-0

REACH-No.: 01-2119485845-22-0000

01-2119485845-22-0012

01-2119485845-22-0016

Packaging

PERSYNT® 500 B7 is available in 65 kg plastic canisters, 220 kg plastic drums (on request), 1100 kg plastic IBC-containers, tank containers or tank trucks (on request).

Storage

PERSYNT® 500 B7 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. For more detailed information please refer to material safety data sheet, our home page www.evonik.com/H2O2 or contact us.

Safe handling

While working with PERSYNT® 500 B7, always wear safety goggles and gloves. If there is a splashing risk, wear a face shield, plastic apron and boots. Have an eye bath and safety showers available. Ensure there is adequate ventilation where peroxide vapors may occur. Have water hoses available for fire fighting. Wash spilled peroxide away from handling and storage areas with plenty of water. Use clean vessels and equipment of compatible materials. Empty all utensils and drain equipment after use. Wash out with water. Prevent any contamination of peroxide. Do not return unused product to original container. Dilute with plenty of water and flush to drain. Avoid all contacts with combustible material, e.g. organic material or oxidizable products. Wash contaminated materials at once. On no account allow them to dry out before rinsing (e.g. clothing). Use only vessels or containers fitted with a safety vent in operable condition. For more detailed information refer to material safety data sheet.

Test methods

Hydrogen peroxide content in PERSYNT® 500 B7 can be determined quantitatively by titration with potassium permanganate or by density measurements. For qualitative identification of hydrogen peroxide special test strips can be used.

Hazards

PERSYNT® 500 B7 is classified as 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.

Transportation

UN Code	2014
ADR/RID Klasse	5.1
Verpackungsgruppe	II
Warnungstafel, Orange	58/2014

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