

SupGuard PE10

DESCRIPTION

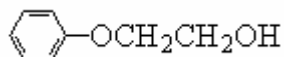
INCI Adopted Name: Phenoxyethanol

CAS Registry No.: 122-99-6

Molecular Formula: $C_8H_{10}O_2$

Molecular Weight: 138.16

Structural Formula:



Synonyms: 2-Phenoxyethanol;
2-Phenoxyethyl Alcohol;
Ethylene Glycol Monophenyl Ether

SPECIFICATIONS *(Not Necessarily)*

Appearance	Colorless clear liquid
Content	99.0% min.
Specific Gravity (20°C)	1.10~1.12
Refractive Index n_D^{20}	1.536~1.541
As	0.0003% max.
Pb	0.001% max.

PACKAGING

Standard packaging includes the following:

1.0kg/bottle; 10bottles/box

25kg net weight plastic pail

220kg net weight plastic drum

Other package sizes are available upon request.

STORAGE

Store in a well-ventilated, cool, dry area, out of direct sunlight. Keep containers tightly closed when not in use.

PERIOD OF VALIDITY

24 months

PROPERTIES

Solubility

Miscible with alcohol, acetone and glycerin; slightly soluble in water, peanut oil and olive oil.

Antimicrobial Activity

SupGuard PE10 is active against a broad range of microorganisms. It is often used in combination with other preservatives and exhibits a synergistic preservative effect.

Toxicological Data

Acute oral toxicity LD ₅₀ (rats):	> 2,000mg/kg
Acute dermal toxicity LD ₅₀ (rabbits):	14,422mg/kg
Eye irritation:	Non-irritating at normal use concentrations
Skin irritation:	Non-irritating at normal use concentrations

Applications

The active ingredient of SupGuard PE10, Phenoxyethanol, is widely accepted around the world and allowed as a preservative in cosmetics and toiletries at levels up to 1.0%.

SupGuard PE10 has an excellent toxicological profile and is non-irritating and non-sensitizing at normal use concentrations. It is a well known co-formulant due to its excellent solvent properties and can often be used to boost the antimicrobial properties of other preservatives.

SupGuard PE10 is extremely stable over a wide pH range and under conditions of high temperature. It is compatible with all commonly used surfactant types – anionic, cationic, nonionic and amphoteric. It is synergistic with other preservatives, especially parabens and/or Iodopropynyl Butylcarbamate (IPBC).

SupGuard PE10 is widely used in both leave-on and rinse-off products, including skincare, haircare, bath and baby products and raw materials. Generally, the recommended use levels are 0.5 to 1.0% depending on system conditions and the presence of other antimicrobials.

The information in this publication corresponds to the present state of our knowledge and is intended to describe our products and their possible applications. No warranty is either expressed or implied. Every cosmetic formulation requires a tailor-made preservative system to meet its special needs. Every developed or modified product should be challenge tested to assure preservative efficacy.