

## Phenoxyethanol SA

### Specification Sheet

**Description:** Blend of phenoxyethanol (50.5-54.5%), caprylyl glycol (40-44%) & sorbic acid (5.0-7.5%), very effective broad-spectrum preservative. Similar to Optiphen (which does not include sorbic acid).

**CAS:** 122-99-6, 110-44-1, 1117-86-8

**INCI Name:** Phenoxyethanol, sorbic acid, caprylyl glycol

**Composition:** Phenoxyethanol, sorbic acid, caprylyl glycol

**Appearance:** Clear to light yellow liquid

#### Benefits:

- Effective broad-spectrum preservation against gram-positive and gram-negative bacteria, yeast, and mold.
- Extends shelf life of personal care products typically to 6-18 months.
- Compatible with most cosmetic ingredients.
- Provides emolliency to finished products.

**Use:** Recommended use level of 0.75-1.50% (restricted to 1% in the EU and Japan), performs best in pH of 6.0, but also proven effective at pH levels up to 10 (ideal pH 4-10). Can be added directly to the formulation during pre- or post-emulsification at or below 60°C/140°F. For external use only.

**Applications:** All kinds of skin & hair care products (incl. emulsions, aqueous and anhydrous systems), wipes, sun care products, & makeup products.

**Solubility:** Soluble in water (1g/100g) and alcohols

**Storage:** Store in a closed container at a dry place at room temperature.

**Country of Origin:** USA

**Raw material source:** Phenol, acetaldehyde

**Manufacture:** Phenoxyethanol is produced by the hydroxyethylation of phenol in the presence of alkali-metal hydroxides or alkali-metal borohydrides. Sorbic acid is produced synthetically by aldol condensation of acetaldehyde to form crotonaldehyde which is then reacted with ketene to form sorbic acid



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**Animal Testing:** Not animal tested.

**GMO:** GMO-free (does not contain plant-derived components)

**Vegan:** Does not contain animal-derived components.

**HS Code:** 2905310000