

# SONNEBORN PRODUCTS AS ADJUVANTS IN ANIMAL HEALTH

## Our Commitment to Animal Health

At Sonneborn, an HF Sinclair brand, we prioritize animal well-being on par with human well-being. Our range of specialized products is designed to enhance animal health by aiding in disease prevention.

## Advancing Animal Vaccination

Animal vaccination is crucial. Veterinary medicines are continuously evolving, with advancements in disease prevention through immunity-building vaccinations. Our high-purity, low-viscosity oils serve as adjuvants in vaccines, enhancing the immune response of the active pharmaceutical ingredient (API).

## Benefits of White Oil in Vaccines

Sonneborn's white oil ensures a perfect emulsion with the active ingredient, facilitating proportional API release into the body. The use of adjuvants works as a catalyst in the animal's response to the vaccine, potentially reducing the required amount of the active component. Compared to vaccines without an adjuvant, they prolong immune system exposure, improving the response and leading to longer-lasting immunity.

## Minimizing Side Effects

While using Sonneborn white oil, high purity and inertness significantly minimizes side effects such as allergic reactions or irritation.

## Trusted Products for Livestock Vaccines

Sonneborn products like Klearol™ AV, Klearol™ 7.5, Lytol™, Medinol™ 75, and Blandol™ are globally recognized as adjuvants for livestock vaccines. Mostly used in vaccines for poultry, cattle, pigs, and aquaculture.

## Our Expertise and Global Reach

As an HF Sinclair brand, Sonneborn develops, formulates, and manufactures pharmaceutical-grade white oils for both human and veterinary markets. Our products meet the purity standards of major global Pharmacopoeias, ensuring the highest quality. Produced in Pennsylvania, USA, and Amsterdam, The Netherlands, our facilities cater to the global demand for animal vaccine adjuvants. Customer loyalty reflects our commitment to providing premium products, superior technical support, and genuine partnership.

## Learn More

For more information about our white oils for animal vaccines, visit our website at [www.sonneborn.com](http://www.sonneborn.com) or contact our knowledgeable and experienced sales team.



## WHITE OILS - TYPICAL PROPERTIES

PRODUCT NAME	Density at 20°C (ASTM D4052)	Kinematic Viscosity (at 40°C)	Test method –Kinematic Viscosity	Flash Point °C (ASTM D92)	Segment
<b>Klearol™ AV (EU)</b>	825-834	7.0 - 8.0	ASTM D7279	Min 150	Poultry
<b>Klearol™ 7.5 (US)</b>	829-840	7.0 - 8.0	ASTM D445	Min 150	Poultry/ Aqua/Fish
<b>Medinol™ 75 (EU)</b>	855-875	30.0 - 33.0	ASTM D7279	Min 180	Bovine
<b>Lytol™ (US)</b>	811-831	3.9-5.0	ASTM D445	Min 120	Poultry
<b>Lytol™ (EU)</b>	810-830	3.0-5.0	ASTM D7279	Min 110	Poultry
<b>Blandol™ (US)</b>	840-860	14.2-17.0	ASTM D445	Min 175	Aqua/Fish
<b>Blandol™ (EU)</b>	830-860	14.0-18.0	ASTM D7279	Min 175	Aqua/Fish

**sonneborn™**

AN HF SINCLAIR BRAND

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