

# ACROIL® VG15

## White Mineral Oil

### Product Description

ACROIL® VG15 White Mineral Oil (ISO 15 viscosity grade) is a purified mixture of liquid saturated hydrocarbons. It is a colorless, transparent oily liquid and is essentially odorless and tasteless. It is obtained from petroleum through several refining stages, including an ultimate purification by catalytic hydrogenation.

This White Oil is manufactured to exceed the purity requirements of the Pharmacopoeias. Due to its superior chemical inertness, it demonstrates better color and oxidative stability than most mineral and vegetable oils when stored and used under controlled conditions.

This White Oil is produced and controlled according to the Product Quality Management System, EN ISO 9000. The product comes from a reputable source located in the European Union.

This White Oil is shipped directly from production sites to local markets for packaging and distribution under the brand name ACROIL® VG15.

The product is packed in steel drums (net weight 180 kg) and plastic canisters (net weight 17 kg) under the supervision of ACRUS Consult Co. and its authorized distributors.

### Applications

This White Oil is used in various food-related, cosmetic, and pharmaceutical applications subject to each country's applicable laws and regulations (\*).

### Cosmetics

This White Oil is widely used as a component of a great variety of cosmetic products:

- Emollients and moisturizers (cleansing oils and milks, body lotions and creams, suntan lotions and milk, make-up powders)
- Baby products (shampoos, baby oils, bath oils)
- Haircare products (hot oil treatments, gels, scalp pomades)
- Neutral and protective diluents for other cosmetic ingredients such as essential oils
- Other applications such as bath cubes, antiperspirants, and deodorant sticks

This White Oil provides many practical advantages to the formulation specialist:

- Excellent skin compatibility, very low irritancy, and no comedogenicity
- Very good balance between resistance to bacteria and final biodegradability, with minimal environmental impact

Further information is available in our bulletin White Oils for Cosmetics.

## Pharmaceuticals

This White Oil offers a high level of safety, thanks to its high purity (absence of toxic polycyclic aromatics, heavy metals), the complete destruction of germs in the high-temperature manufacturing process, and specific packaging and handling procedures.

This White Oil is an ingredient of pharmaceutical topical ointments and petroleum jellies. It can be used as a pelletizer aid and in the manufacture of gelatin capsules.

(\* Users must check compliance with applicable regulations. As an example, at the date of publication of this document, this White Oil can be used as a food additive in the USA subject to applicable FDA regulation, while it cannot be used as a direct food additive in European Union Member States

## Properties and Specifications

This White Oil meets the requirements of the following specifications:

- USA FDA, 21 CFR 178.3620(a), White Mineral Oil
- US Pharmacopeia (USP) / National Formulary, most recent edition, Light Mineral Oil
- National Sanitation Foundation (NSF), category H1
- European Pharmacopoeia (EP), most recent edition, Light Liquid Paraffin

INCI name (Europe): Paraffinum Liquidum

CTFA Dictionary name (USA): Mineral Oil

Property	Test Method	Typical	Min	Max
Appearance	Visual	-	Clear and Bright	Clear and Bright
Odor	Olfactory	-	absent	absent
Color, Saybolt	ASTM D 156	-	+ 30	
Kinematic Viscosity @ 40°C, mm <sup>2</sup> /s	ASTM D 445	-	14.5	17.5
Kinematic Viscosity @ 100°C, mm <sup>2</sup> /s	ASTM D 445	3.6		
Dynamic Viscosity @ 20°C, mPa.s	Calculated	-	27	37
Density @ 15°C, kg/m <sup>3</sup>	ASTM D 4052	-	845	858
Relative Density @ 20°C/20 °C	ASTM D 4052	-	0,843	0,857
Pour Point, °C	ASTM D 5950	-	-	- 6
Flash Point, °C	ASTM D 92	-	182	-
Refractive Index, nD <sup>20</sup>	ASTM D 1218	-	1.464	1.470

Carbon Type, % Paraffinic / Naphthenic / Aromatic	AM-S 1805	65/ 35 / 0	-	-
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Typical values may vary within modest ranges, and specifications may be subject to change.

## Health and Safety

Detailed health and safety information for this product is provided in the Material Safety Data Sheet (MSDS), available upon request through our local sales representative or by e-mail address: [infobox@acrus.dk](mailto:infobox@acrus.dk).

## Storage and Handling

Recommended storage and handling procedures for white oil products are summarized in a separate bulletin available upon request through our e-mail address: [infobox@acrus.dk](mailto:infobox@acrus.dk).

## Further Information

ACRUS / Petroleum Specialties division supplies a range of white oils, waxes, and chemical products. Please contact our local representative or contact us via e-mail address: [infobox@acrus.dk](mailto:infobox@acrus.dk), for more information on other products.

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