

Marcol 82

Product Description

Marcol 82 is a purified mixture of liquid saturated hydrocarbons. It is a crystal clear, water-white product that contains no toxic impurities. It is obtained from petroleum by vacuum distillation with subsequent refining stages including an ultimate purification by catalytic hydrogenation.

Marcol 82 is manufactured according to purity specifications more severe than the requirements of Pharmacopoeias. It has a higher stability than most mineral, chemical and vegetable products and has excellent chemical inertness.

Marcol 82 is a medicinal grade white oil which means it can be used in a variety of cosmetic and pharmaceutical applications subject to the applicable laws and regulations in each country.

The quality of ExxonMobil White Oils is assured for every delivery. These products are produced and controlled according to the ExxonMobil Product Quality Management System, EN ISO 9000 or equivalent standard.

Applications

Cosmetics

Marcol 82 is widely used as a component of a great variety of cosmetic products:

- Emollients and moisturisers (cleansing oils and milks, body lotions and creams, suntan lotions and milk, lipsticks, make up powders, ...)
- Baby products (shampoos, baby oils, bath oils)
- Hair care products (hot oil treatments, gels, scalp pomades, ...)
- Neutral and protective diluent for other cosmetic ingredients such as essential oils,
- Other applications such as bath cubes, anti-perspirant and deodorant sticks, ...

Marcol 82 provides many practical advantages to the formulation specialist, at a very attractive cost:

- 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

Marcol 82 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.

Marcol 82 is an ingredient of pharmaceutical topical ointments and petroleum jellies. It can be used as a pelletiser aid, and in the manufacture of gelatin capsules.

Properties & Specifications

Marcol 82 meets the requirements of the following specifications:

- USA FDA, 21 CFR 172.878 and 21 CFR 178.3620(a), White Mineral Oil
- US Pharmacopoeia/National Formulary, USP 24/NF 19, Light Mineral Oil
- USDA (Department of Agriculture), USDA H1 approved
- European Pharmacopoeia, 4th Edition 2002, Light Liquid Paraffin
- Japanese Pharmacopoeia, JPXIV, Light Liquid Paraffin
- British Pharmacopoeia, BP 2001, Light Liquid Paraffin

INCI name (Europe): Paraffinum Liquidum

Every care has been taken in the preparation of this information. To the extent permitted by applicable law, all warranties and/or representations, express or implied, as to the accuracy of the information are disclaimed, and no liability is accepted for the accuracy or completeness of the same.

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CTFA Dictionary name (USA): Mineral Oil
CAS number: 8042-47-5 EINECS number: 2324558

Typical values may vary within modest ranges and specifications may be subject to change.

Property	Test Method	Typical	Min	Max
Appearance	Visual		Clear & Bright	
Odor	Olfactory		Absent	
Color, Saybolt	ASTM D 156		+ 30	
Kinematic Viscosity @ 40°C, mm ² /s	ASTM D 445		13.5	16.5
Kinematic Viscosity @ 100°C, mm ² /s	ASTM D 445	3.5		
Dynamic Viscosity @ 20 °C, mPa.s	Calculated	29		
Dynamic Viscosity @ 25 °C, mPa.s	Calculated		20	25
Density @ 15 °C, kg/m ³	ASTM D 4052		843	855
Density @ 20 °C, kg/m ³	ASTM D 4052		840	852
Specific Gravity 15 °C/15 °C	ASTM D 4052		0.844	0.856
Pour Point, °C	ASTM D 97			-6
Flash Point, °C	ASTM D 92		180	
Refractive Index, nD ²⁰	ASTM D 1218		1.462	1.468
Carbon Type, wt% Paraffinic / Naphthenic / Aromatic	ASTM D 2140	67/33/0		
Water content, ppm	ASTM D 1533			35

Health & Safety

Detailed health and safety information for this product is provided in the Material Safety Data Sheet (MSDS), available upon request through your local sales representative or from www.ExxonMobil.com

Further Information

ExxonMobil supplies a range of white oils, process oils, waxes, bitumen and a full range of other lubricants, fuels and chemical products worldwide. Please contact your local ExxonMobil representative, or contact us at www.ExxonMobil.com, for more information on other products.

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