

Citropol H[®]

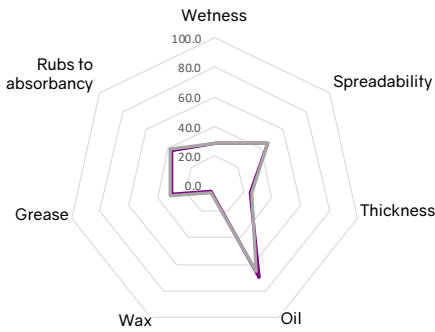
Citropol[®] H is a revolutionary medium viscosity cosmetics polymer. It is 100% derived from sustainable feedstocks and is a viable natural alternative to dimethicone 350 cPs. Citropol H imparts a lightweight, velvety feel in personal care and cosmetics formulations. Based on our applications lab expertise, Citropol H is a valuable component in a range of applications in the beauty industry: cosmetics, skin care, hair care, fragrance, deodorants, and moisturizers.

All P2 Science products are biorenewable, biodegradable, and biocompatible. They do not compromise human and environmental safety.

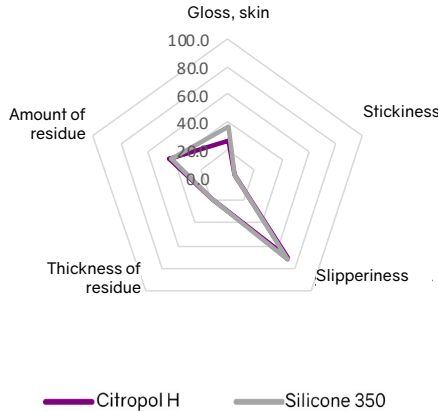
INCI: Polycitronellol



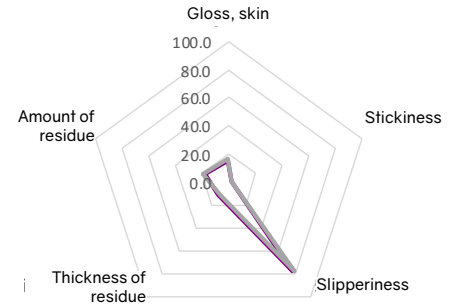
Rub Out



Immediate Afterfeel



20 Minute Afterfeel

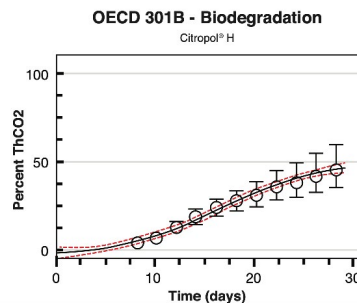


Renewability

Citropol[®] H is sustainably manufactured from naturally-derived feedstocks. It is made to meet the highest standards of the cosmetics and personal care industries. The raw material terpenes are Forest Stewardship Council (FSC) certified pine, and are upcycled via side-stream turpentine from the paper making process.

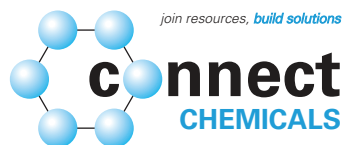
Biodegradability

Citropol[®] H is inherently biodegradable according to the OECD 301B biodegradability test.



Comparison Data

	Citropol H	Silicones
Biodegradable	✓	✗
Low E-factor	✓	✗
Renewable	✓	✗
Clean label	✓	✗
Long lasting	✓	✓
Non-greasy	✓	✓
Slippery	✓	✓



About Citropol H

Representative Properties



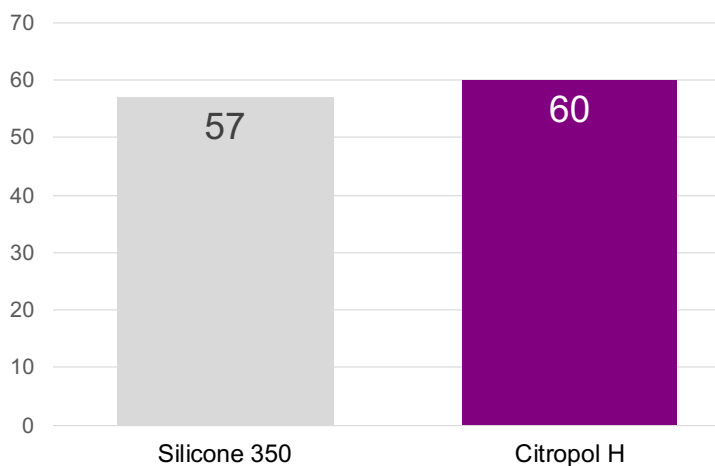
Did You Know?

Citropol® is made by a clean, mild, and high yielding conversion process called Process Intensified Continuous Etherification (PICE™).

Appearance	Translucent liquid
Odor	Odorless
Color	Clear to light yellow
Viscosity (mPa·s @ 25°C)	345 - 425
Refractive index @ 20°C	1.4 - 1.5
Surface tension (mN/m)	27 - 33
Density (g/mL)	0.850 - 0.950
Boiling point (°C)	> 200
Solubility	Soluble in alcohols and oils
pH	6.5 - 7.5
Bio-based (%)	100%

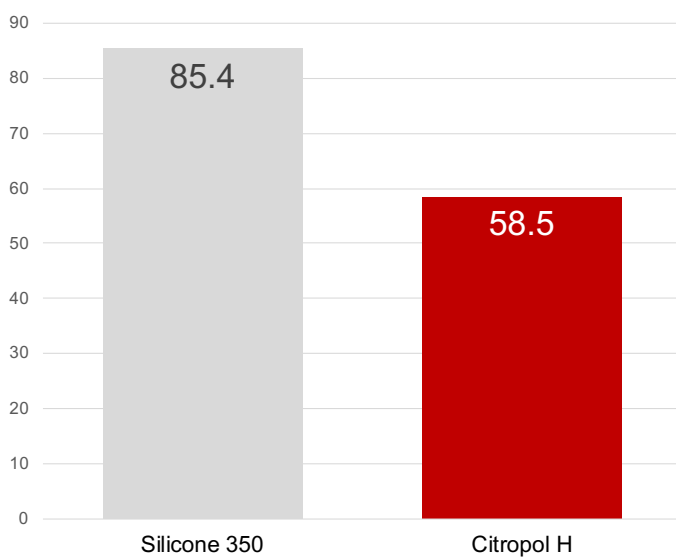
Anti-Frizz - % Decrease in Frizz

Silicone 350 vs. Citropol H

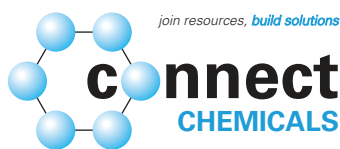


% Build-Up After 10 Applications

Silicone 350 vs. Citropol H



Elegant Processes.
Sustainable Products.



Our Commitment to Sustainability

For every kilo of Citropol® H sold, P2 Science will sponsor the planting of a tree.

Learn more about our Plant a Forest Initiative at <http://p2science.com/about-us/>.



1 Kilo of Product Sold



1 Tree Planted



1 Ton of CO₂ Absorbed

**For more information and samples,
please contact:**

sales@p2science.com

p2science.com



Elegant
Processes.
Sustainable
Products.

The information in this publication is believed to be accurate and is given in good faith but no representation or warranty as to its completeness or accuracy is made. Suggestions for uses or applications are only opinions. Users are responsible for determining the suitability of these products for their own particular purpose. No representation or warranty, express or implied, is made with respect to information or products including without limitation warranties of merchantability or fitness for a particular purpose or non-infringement of any third-party patent or other intellectual property rights including without limit copyright, trademark and designs. Any trademarks identified herein are trademarks of P2 Science, Inc. Please refer to US Patent 10,059,801.