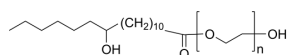


## Certificate of Analysis

<b>Product Name:</b>	Solutol HS-15
<b>Cat. No.:</b>	CS-0040442
<b>CAS No.:</b>	61909-81-7
<b>Batch No.:</b>	29608
<b>Chemical Name:</b>	Poly(oxy-1,2-ethanediyl), $\alpha$ -(12-hydroxy-1-oxooctadecyl)- $\omega$ -hydroxy-

### PHYSICAL AND CHEMICAL PROPERTIES

<b>Molecular Formula:</b>	$(C_2H_4O)_n C_{18}H_{36}O_3$
<b>Storage:</b>	2-8°C, sealed storage, away from moisture
<b>Chemical Structure:</b>	



### ANALYTICAL DATA

<b>Appearance:</b>	Colorless to off-white (Oil)
<b>Free Macrogols(27.0-39.0):</b>	33.0 g
<b>pH Value(5.0-7.0):</b>	6.4
<b>Acid Value:</b>	1 mg
<b>Hydroxyl Value(90-110):</b>	103 mg
<b>Iodine Value(Hanus):</b>	2 g
<b>Peroxide Value:</b>	3 meq/kg
<b>Saponification Value(53-63):</b>	60mg
<b>Nickel:</b>	< 1 mg/kg
<b>Heavy Metals:</b>	10 mg/kg
<b>Ethylene Oxide:</b>	1 mg/kg
<b>Conclusion:</b>	The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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