

## Certificate of Analysis

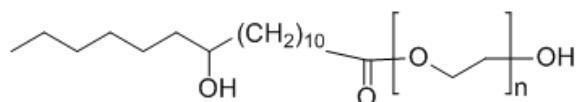
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Product Name: Solutol HS-15  
Cat. No.: GC30012  
Batch No.: 19  
Chemical Name:

### PHYSICAL AND CHEMICAL PROPERTIES

Cas. No.: 61909-81-7  
Molecular Formula:  $(C_2H_4O)_n C_{18}H_{36}O_3$   
Molecular Weight:  
Storage: Store at 4°C, sealed storage, away from moisture

Chemical Structure:



### ANALYTICAL DATA

Appearance: An oil  
Acid Value: 0.2 mg KOH/g  
Hydroxyl Value: 102 mg KOH/g  
Iodine Value: 0.4 g Iodine/100g  
Peroxide value: <1 meq/kg  
Saponification Value: 59 mg KOH/g  
Free macrogols: 32.8 g/100g  
Nickel: <1 mg/kg  
Water (Karl-Fischer-Titration): 0.1 g/100g  
Total ash: 0.2 g/100g  
pH-Value (10 g/100mL water): 6.0  
Conclusion: 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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