

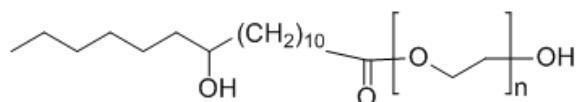
Certificate of Analysis

Product Name: Solutol HS-15
Cat. No.: GC30012
Batch No.: 20
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: 105 mg KOH/g
Iodine Value: 0.5 g Iodine/100g
Peroxide value: <1.0 meq/kg
Saponification Value: 59 mg KOH/g
Free macrogols: 32.6 g/100g
Nickel: <1 mg/kg
Water (Karl-Fischer-Titration): 0.1 g/100g
Total ash: 0.1 g/100g
pH-Value (10 g/100mL water): 6.1
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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA