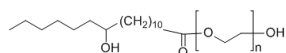


Certificate of Analysis

Product Name: Solutol HS-15
Cat. No.: GC30012
Batch No.: 28
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
Free macrogols: 32.8
pH(100g/L in water): 6.6
Acid value : 0.2
Hydroxyl value : 104
Iodine value (hanus) : 0.6
Peroxide value: 3.0 meq/kg
Saponification value: 60
Water : 0.1
Nickel : 1 mg/kg
Total ash : 0.2
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

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