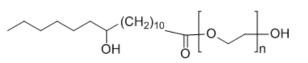


Certificate of Analysis

Product Name:	Solutol HS-15
Cat. No.:	GC30012
Batch No.:	12
Chemical Name:	
PHYSICAL AND CHEMICAL PROPERTIES	
Cas. No.:	61909-81-7
Molecular Formula:	$(C_2H_4O)nC_{18}H_{36}O_3$
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
lodine Value:	0.4 g lodine/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. Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com Address: 10292 Central Ave. #205, Montclair, CA, USA