

**Certificate of Analysis**
**(Representative Sample Certificate)**

**Product Name:** Glycerin  
**INCI Name:** Glycerin  
**CAS Number:** 56-81-5  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 36 months from production date

Property	Specifications	Laboratory Values
Identification	To pass test (A) IR & (B) GLC	Passes
Colour		
(a) ferric chloride std	To pass the test	Passes
*(b) APHA	20 max	10
Specific Gravity @25°C	>=1.249	1.2626
Residue on Ignition/Ash	0.01% max	0.0032
Water	<= 5.0%	0.1001
Chloride	0.001% max	Passes
Sulphate	0.002% max	Passes
Heavy Metals	5 ppm max	Passes
Chlorinated Compounds	0.003% max	Passes
Fatty Acids & Esters	<= 1ml of 0.5N NaOH	0.6ml
Limit of individual impurity and total impurity (including diethylene glycol & ethylene glycol)	<=0.1%. The amount of total impurity including diethylene glycol & ethylene glycol NMT 1.0%	Absent
Assay on anhydrous basis	99-101	99.73

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.