

# Certificate of Analysis

SIGMA-ALDRICH®

**Product Name** Stearic acid,  
reagent grade, 95%  
**Product Number** 175366  
**Product Brand** SIAL  
**CAS Number** [57-11-4](#)  
**Molecular Formula** CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COOH  
**Molecular Weight** 284.48

## TEST

QC Acceptance date  
APPEARANCE - COLOUR  
APPEARANCE - STATE  
INFRA-RED  
SPECTROSCOPY - FTIR  
SPECTRUM  
INFRA-RED  
SPECTROSCOPY -  
REFERENCE  
MELTING POINT  
TITRATION VS NaOH -  
AVERAGE PURITY BY  
TITRATION  
SOLUBILITY -  
CONCENTRATION  
SOLUBILITY - COLOUR  
SOLUBILITY - CLARITY  
SOLUBILITY -  
INSOLUBLES  
SOLUBILITY - APHA  
GAS CHROMATOGRAPHY  
- AVERAGE PURITY

## SPECIFICATION

## LOT 60610044 RESULTS

19-JUN-1996  
WHITE  
FLAKES  
  
CONFORMS TO  
REFERENCE  
  
1(1), 485C  
  
67.9-68.6 DEG C.  
  
99.51%  
  
100MG/ML,  
CHLOROFORM  
COLOURLESS  
CLEAR  
  
NONE  
  
21.8  
  
97.88%



Dr. Colin E. Broomfield, Manager  
Quality Control  
Gillingham United Kingdom