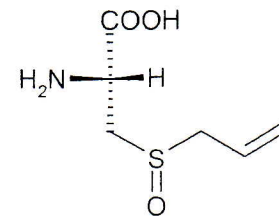




# INDOFINE Chemical Company, Inc.

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**HPLC** **Batch: 11**

**ALLIIN** **027253S**

### IDENTIFICATION

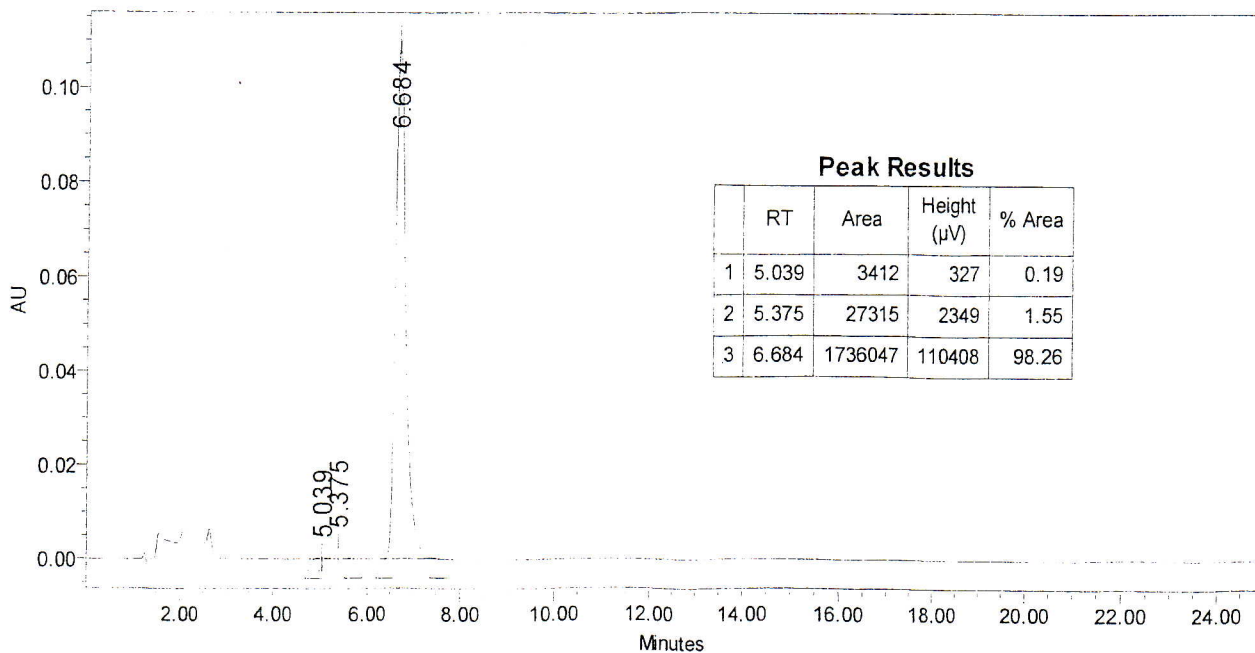
CAS number	[556-27-4]
Chemical family	Sulfur derivatives
Chemical names	(S)-3-(Allylsulfinyl)-L-alanine S-allyl-L-cysteine sulfoxide
Molecular formula	C <sub>6</sub> H <sub>11</sub> NO <sub>3</sub> S
Molecular weight	177.22

### CERTIFICATE OF ANALYSIS

Appearance	White powder
Melting point	153-155°C
Thin layer chromatography	support Silicagel solvent n-Butanol/n-propanol/acetic acid/water (3/1/1/1:V/V/V/V) detection Ninhydrine
Moisture	1.3%
[α] <sub>D</sub>	+ 62° (c=0.8 in water)
Storage	Store at room temperature in a dry and dark place.

### HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

Column	Nova pak C18® (100 x 8 mm), particle size 4 μm
Solvent	THF / 1.4 Dioxane / Acetonitrile / Buffer phosphate pH7.1 (1/30/4/85 , V/V/V/V)
Flow rate	1ml/mn
Detector	UV visible 337 nm
Sample solvent	Derivatization: 18ml of a solution: (140mg o-phthaldialdehyde in 5ml methanol + 100 μl tert-butylthiol) in 50 ml buffer ph9 2 ml of a solution: 15 mg of alliin in 20 ml methanol/water (50/50 , V/V)



Assay by an HPLC method.  
Date of last QC-recheck : June 2008

*The values given on the 'Certificate of Analysis' are the results determined at the time of analysis.*