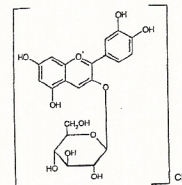


**INDOFINE Chemical Company, Inc.**

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**HPLC****Batch: 39****KUROMANIN CHLORIDE****020915S****IDENTIFICATION**

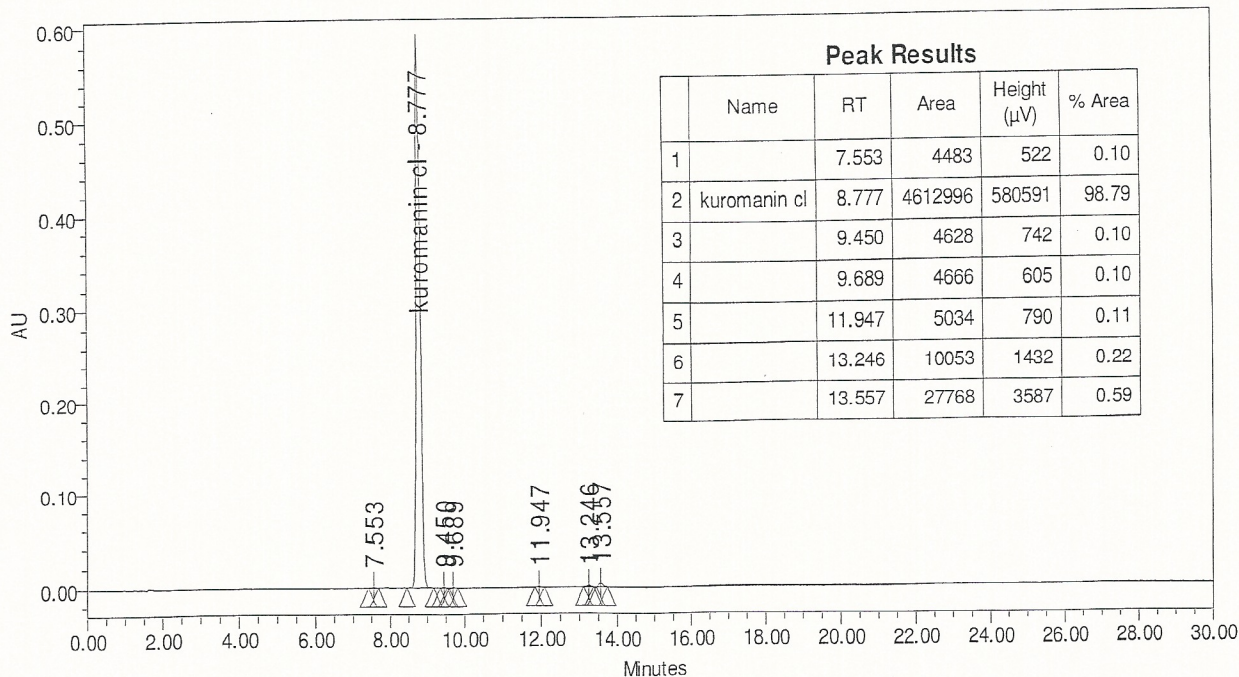
CAS number	[7084-24-4]
Chemical family	Anthocyanins
Chemical names	Cyanidin-3-O-glucoside chloride; Chrysanthemin chloride
Molecular formula	C ₂₁ H ₂₁ O ₁₁ Cl
Molecular weight	484.82

CERTIFICATE OF ANALYSIS

Appearance	Powder	
Thin layer chromatography	support solvent detection	Cellulose Acetic acid/water/hydrochloric acid (70/23/7, V/V/V) Visible
Absorption maxima	528 nm in methanol + HCl 0.1%	
Storage	Store at <-15°C in a dry and dark place. Place in a desiccator under vacuum before use.	

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY

Column	Symmetry Shield RP18® (4.6 x 150 mm), particle size 3.5 µm
Solvent	20 mn linear gradient from 5 to 60% B and 5 mn linear gradient from 60 to 100% B then 5 mn , isocratic 100% B A=water + 10% formic acid B=methanol
Flow rate	1 ml/mn
Detector	UV visible 520 nm
Sample solvent	Methanol + 0.1% HCl



Assay by an HPLC method.

Date of last QC-recheck *December 2012*
Date of retest *December 2016*

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