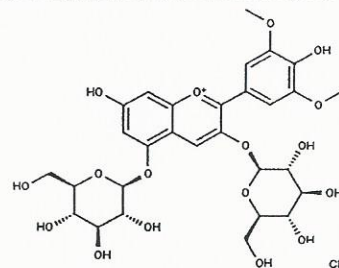


**INDOFINE Chemical Company, Inc.**

121 Stryker Lane, Bldg. 30
Hillsborough, NJ 08844 USA
Phone: (908) 359-6778; Fax: (908) 359-1179

Certificate Of Analysis**020930S****MALVIN CHLORIDE****Lot No.: 17112123**

CAS RN	16727-30-3
MOL FORMULA	C ₂₉ H ₃₅ O ₁₇ Cl
MOL WEIGHT	691,01



TEST	METHOD	UNIT	SPECIFICATION	RESULT
Appearance	Visual		Dark powder	Conform
Potency	UV		E (537 nm, MeOH+0,1% HCl) = 43 000 +/- 2200	43120
Water content	KF	% w/w		5,1
Residual solvents	GC-HS	% w/w		0,5
Inorganics	ICP-MS	% w/w		< 0,1
Purity	HPLC	% area	≥ 95,0	96,4
Assay	Calculated (*)	% w/w		91,0

(*) Assay = Purity by HPLC x (100 - %water - %solvents - %inorganics)

CHROMATOGRAPHIC PURITY / HPLC

Column : Atlantis dC18 - 4,6x150 mm - 3 µm

Temperature : 30°C

Mobile phase :

Gradient: B from 5% to 60% in 20 min then 60% to 100% in 5 min then 5 min isocratic 100%

Flow rate : 1 ml/min

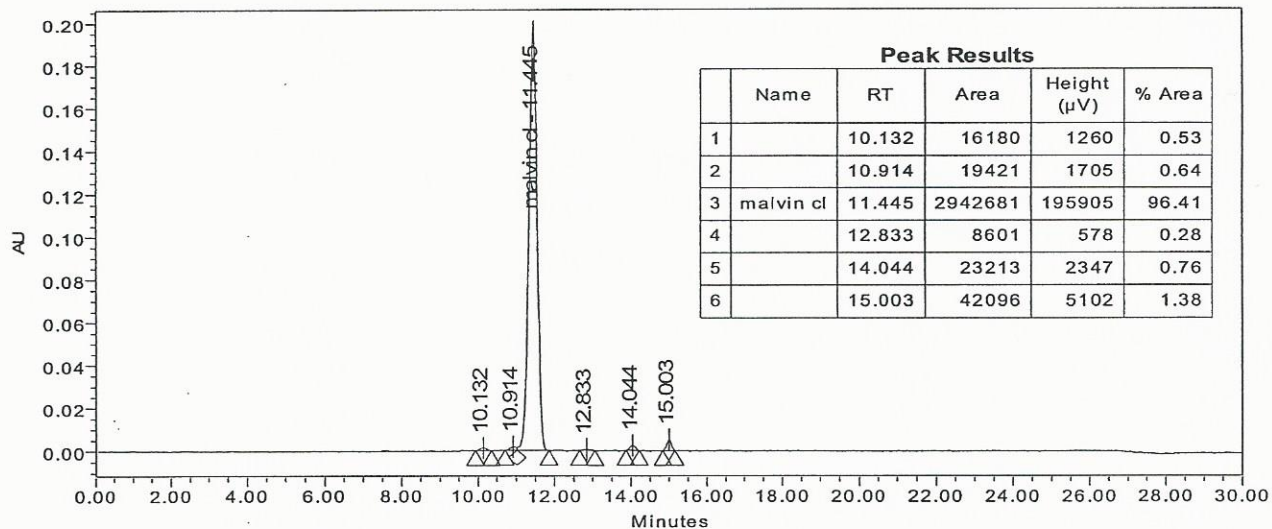
A = Water + 10% HCOOH / B = MeOH

Injection volume : 5 µl

Detection :

UV 525 nm

Injection solvent : MeOH + 0,1% HCl



LONG TERM STORAGE : Below -15°C in a dry and dark place