

# ELECTROACTIVE POLYMERS

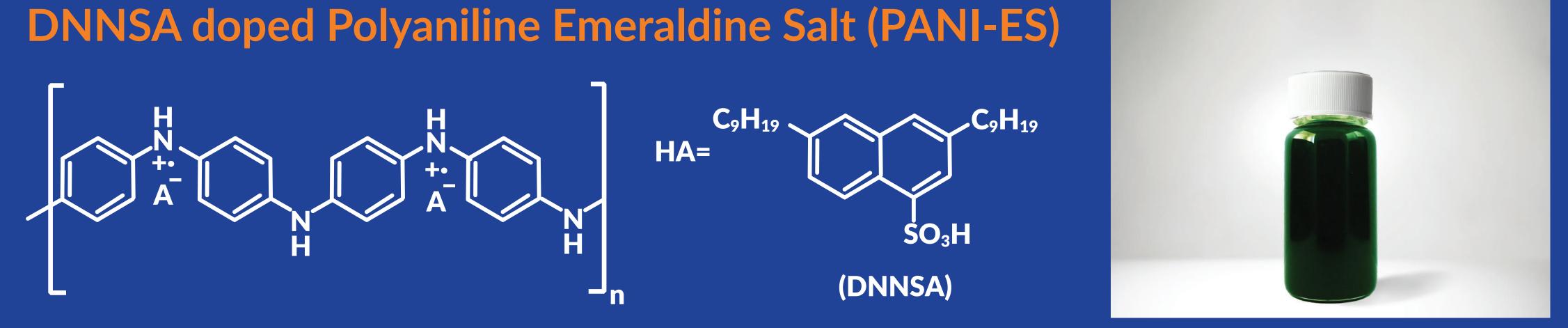
# POLYANILINE (PANI)

Polyaniline (PANI) is a well-studied electroactive polymer with high intrinsic electrical conductivity. PANI is unique among conducting polymers as its conductivity can be reversibly controlled. Nevertheless, most available PANI has poor-solubility in common solvents limiting its application.

Boron Molecular can now provide toluene soluble solutions of highly defined and high quality doped PANI in commercial quantities.

This material has a broad range of applications in the development of materials that are able to dissipate electrostatic potentials and also in the development of electrically conductive materials, coatings and composites.

**Commercial applications of polyaniline include:** electrostatic dissipation; anticorrosion coatings; rechargeable batteries; various electronic devices; sensor; organic photovoltaics; and separation membranes.



# **SPECIFICATIONS**

Dopant	DinonyInaphthalene sulfonic acid (DNNSA)
Molecular Weight	MP 55,000; Mn 43,000; Mw 66,000
Polydispersity	1.52
Conductivity	1 x 10-5 S/cm or 10 S/cm
<b>Colour/UV-Vis transmission</b>	Dark emerald green
Processability	Soluble: xylene, toluene, NMP, CHCl <sub>3</sub> , Chloroacetic acid
	Insoluble: water, acetone, 2-propanol



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