

Technical Data Sheet

Product Name	Provinal™ 50 Ethyl Ester
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Product Characteristics

Items	Standard	Method
Appearance	Clear liquid	
Odor	Very light odor	
Color	Gardner Not more than 6	Gardner
Palmitoleic EE Concentration (C16:1n7)	Not less than 50%	AOCS Ce 1b-89
Acid Value	Not more than 2.0 mg KOH/g	AOCS Cd 3d-63
Peroxide Value	Not more than 5.0 meq/kg	AOCS Cd 8-53
p-Anisidine Value	Not more than 15.0	AOCS Cd 18-90
TOTOX	Not more than 25.0	Calculation
Moisture	Not more than 0.1%	Karl Fisher

Heavy Metals

Lead(Pb)	Not more than 0.1 ppm (mg/kg)	ICP-MS
Arsenic(As)	Not more than 0.1 ppm (mg/kg)	ICP-MS
Cadmium(Cd)	Not more than 0.1 ppm (mg/kg)	ICP-MS
Mercury(Hg)	Not more than 0.1 ppm (mg/kg)	ICP-MS

**Results of contaminants may be expressed on the COA either compliant/non-compliant (based on Master Batch Testing) or as actual results. Periodic testing to confirm continued compliance to specifications.*

PCBs & Dioxins

PCBs	Max. 0.09 ppm (mg/kg)	HRGC-HRMS
PCDDs & PCDFs	Max. 2 ppt (pg/g)	HRGC-HRMS
Dioxin like PCBs	Max. 3 ppt (pg/g)	HRGC-HRMS

**Quarterly testing to confirm continued compliance to specifications.*

Shelf-Life

Shelf-Life is 1year from the date of manufacture.

Packaging

190 kg Drums

Revision Date: 07/20/2011