

## SPECIFICATION OF DELTAMETHRIN TECHNICAL

Common name:	Deltamethrin
Chemical name:	(S) - $\alpha$ -cyano -3 -phenoxybenzyl (1R)-cis -3-(2,2-dibromoethenyl)- 2,2-dimethylcyclopropanecarboxylate
CAS Number:	52918-63-5
Molecular Formula:	C <sub>22</sub> H <sub>19</sub> Br <sub>2</sub> NO <sub>3</sub>
Molecular Weight:	505.2
Pesticide Class:	Synthetic pyrethroid insecticide
Appearance:	Off white to white Powder
Deltamethrin Content w/w:	98% min.
Optical Rotation of 4% solution in Toluene at 20°C:	57 ± 1.5°
Acid chloride corresponding to Deltamethrin:	0.2% max.
Acid + Anhydride corresponding to Deltamethrin :	1.0% max.
Moisture Content (% w/w):	0.2% max
Melting Point:	98 -101°C
Solubility:	In water <0.2 µg/l (25°C). In dioxane 900, Cyclohexanone 750, dichloromethane 700, acetone 500, benzene 450, dimethyl sulfoxide 450, Xylene 250, ethanol 15, isopropanol 6 (all in g/l, 20°C).
Toxicity of Technical:	Acute Oral rat LD <sub>50</sub> - 135- > 5000 mg/kg Acute Dermal rabbit LD <sub>50</sub> - > 2000 mg/kg
Compatibility:	Compatible with most organophosphorous pesticides
Packing:	25 kgs & 50 kgs Metal / Fibre Drums
Shelf Life:	2 years

For DEVIDAYAL (SALES) LIMITED,