

SPECIFICATION OF ALPHACYPERMETHRIN TECHNICAL

Common name	:	Alphacypermethrin
Chemical name	:	[1 α (S*),3 α](\pm)-cyano(3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
CAS Number	:	67375-30-8
Molecular Formula	:	C ₂₂ H ₁₉ Cl ₂ NO ₃
Molecular Weight	:	416.3
Pesticide Class	:	Synthetic pyrethroid insecticide
Appearance	:	Off white to pale yellow Powder
Odour	:	A weak aromatic odour
Alphacypermethrin Content	:	97% min.
(1R Cis)R and (1S Cis) S isomers, by mass	:	2.0% max
Trans isomer	:	0.50% max.
Melting Point	:	78 -81°C
Alkalinity (as NaOH)	:	0.15% max.
Moisture Content	:	0.20% max.
Solubility	:	In water c. 0.01 mg/l (25 °C). In acetone 620, dichloromethane 550, cyclohexanone 515, ethyl acetate 440, chlorobenzene 420, acetophenone 390, o-xylene 350, hexane 7 (all in g/l, 25 °C). In maize oil 19-20, ethylene glycol < 1 (both in g/kg, 20 °C)
Toxicity	:	Acute Oral rat LD ₅₀ - 474 mg/kg Acute Dermal rabbit LD ₅₀ - > 2000 mg/kg
Compatibility	:	Compatible with most organophosphorous pesticides
Packing	:	25kgs, 40 kgs and 50 kg Drums
Shelf Life	:	2 years

For DEVIDAYAL (SALES) LIMITED