

# Product Specifications

CAS No: 3380-34-5

SR NO.	ITEM	SPECIFICATION
1	Appearance / colour.	Fine whitish, crystalline powder. Melts at about 57°C
2	Solubility.	Soluble in methanol, in alcohol and in acetone. Slightly soluble in hexane. Practically insoluble in water
3	Identification	
	A. By IR Absorption.	The IR absorption spectrum of the sample should be concordant with IR absorption spectrum of Triclosan working standard
	B. By GC RT.	The retention time of the major peak in the chromatogram of the assay preparation, should correspond to that in the chromatogram of the standard preparation, as obtained in the assay.
4	Water	Not More Than (NMT) 0.1%.
5	Completeness of solution.	A solution of 1.40g of Triclosan in 10ml of acetone is clear
6	Heavy metals.	Not more than 0.002%
7	Related Compound By GC.	
	a. Any individual impurity.	Not more than 0.1%
	b. Total impurities	Not more than 0.5%
8	Phenolic Impurities by HPLC	
	A. 4 - Chlorophenol	Not more than 50ppm
	B. 2,4 Dichloro Phenol	Not more than 10ppm
9	Neutral impurities by HPLC	
	a. 1,3,7-Trichlorodibenzo-p-Dioxin.	Not more than 0.25ppm
	b. 2,8-Dichlorodibenzo-p-Dioxin	Not more than 0.5ppm
	c. 2,8 - Dichlorodibenzofuran	Not more than 0.25ppm
	d. 2,4,8-Trichlorodibenzofuran	Not more than 0.5ppm
10	Neutral Impurities by GC-Mass	
	a. 2,3,7,8-tetrachlorodibenzo-p-dioxin	Not more than 1.0 ppt
	b. 2,3,7,8 tetrachlorodibenzofuran	Not more than 1.0 ppt
11	Assay by GC (on anhydrous basis)	Not less than 97.0% and not more than 103.0% w/w
12	Residual solvents by GC-HS	
	a. Hexane	Not more than 250 ppm
	b. Tetrachlorodibenzofuran	Not more than 100 ppm
13	Additional Tests	
	a. Iron	Not more than 10 ppm.
	b. loss on drying	Not more than 0.1 %
	c. Residue on ignition	Not more than 0.1%
	d. Odour	Odourless / mild aromatic / phenolic / Characteristic.