TECHNICAL DATA SHEET

TRICLOSAN – USP

Sr. No.	Test	Specification
1	Description	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 the 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 0.1%
5	Completeness of Solution	A solution of 1.40 g of triclosan in 10 ml of acetone is clear.
6	Related Compounds by GC	
	(a) Any Individual Impurity	Not more than 0.1%
	(b) Total Impurities	Not more than 0.5%
7	Phenolic Impurities by HPLC	
	(a) 4-Chlorophenol	Not more than 50 ppm
	(b) 2,4-Dichlorophenol	Not more than 10 ppm
8	Neutral Impurities by HPLC	
	(a) 1,3,7-Trichlorodibenzo-p-dioxin	Not more than 0.25 ppm
	(b) 2,8-Dichlorodibenzo-p-dioxin	Not more than 0.5 ppm
	(c) 2,8-Dichlorodibenzofuran	Not more than 0.25 ppm
	(d) 2,4,8-Trichlorodibenzofuran	Not more than 0.5 ppm
9	Neutral Impurities by GC-Mass	
	(a) 2,3,7,8-Tetrachlorodibenzo-p-dioxin	Not more than 1.0 ppt

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	(b) 2,3,7,8-Tetrachlorodibenzofuran	Not more than 1.0 ppt
10	Assay by GC (on Anhydrous Basis)	Not less than 97.0% and not more than 103.0% w/w
11	Residual Solvents by GC-HS	
	(a) Hexane	Not more than 250 ppm
	(b) Tetrachloroethylene	Not more than 100 ppm
12	Additional Tests	
	(a) Loss on Drying	Not more than 0.1%
	(b) Iron	Not more than 10 ppm
	(c) Residue on Ignition	Not more than 0.1%
	(d) Odour	Odourless / Mild aromatic / Phenolic / Characteristic

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