



SRF Limited

Fluorochemicals Business, Dahej

Finished Product - Specification

Chemical Name	Trichloroethylene			DC No.	QA1/ ANS/ FP/ TCE - Type-I
Chemical formula	C <sub>2</sub> HCl <sub>3</sub>	Mol.wt	131.4	CAS No.:	79-01-6
Issue Date	18.04.13		Revision Date	03.02.16	
Issue No.	1		Revision No.	3	

S. No.	Characteristics	Unit	Specification
1	Appearance	-	Clear, almost colourless liquid and free from matter in suspension.
2	Colour, <i>Maximum</i>	Hazen	25
3	Identification by GC	-	Should confirm to standard
4	Relative density at 27/ 27 deg C	-	1.452 - 1.458
5	Residue on evaporation, <i>Maximum</i>	mg/100 ml	15
6	Distillation yield between 86 & 88 deg C (Temperature being corrected for 760 mm Hg), <i>Minimum</i>	% by Vol	94
7	Moisture, w/w, <i>Maximum</i>	ppm	200
8	Free Chlorine	-	Shall not show any free chlorine
9	Alkalinity, as Na <sub>2</sub> CO <sub>3</sub> , w/w	Percent by mass	0.005 - 0.020
10	Resistance to corrosion	-	Shall pass the test

**For information only**

11	Purity by GC, w/w, <i>Minimum</i>	%	Informative
12	pH	-	Informative

Reference : IS:245-1988 (III revision), amended Dec-95 & May-02.

**Abbreviations:**

- QA1        Quality Assurance Module-1
- ANS       Analytical Specification
- FP        Finished Product
- w/w       weight by weight
- v/v        volume by volume

**CONTROLLED**

Prepared by	Checked by	Accepted by	Reviewed by	Approved by
Manager - QA	Head - TAG & QA	AVP - FCB	SVP & HOM	SVP (S&M) - FC



SRF Limited

Fluorochemicals Business, Dahej

Finished Product - Specification

Chemical Name	Trichloroethylene			DC No.	QA1/ ANS/ FP/ TCE - Type-II
Chemical formula	C <sub>2</sub> HCl <sub>3</sub>	Mol.wt	131.4	CAS No.:	79-01-6
Issue Date	18.04.13		Revision Date	03.02.16	
Issue No.	1		Revision No.	3	

S. No.	Characteristics	Unit	Specification
1	Appearance	-	Clear, almost colourless liquid and free from matter in suspension.
2	Colour, <i>Maximum</i>	Hazen	25
3	Identification by GC	-	Should confirm to standard
4	Relative density at 27/ 27 deg C	-	1.447 - 1.458
5	Residue on evaporation, <i>Maximum</i>	mg/100 ml	15
6	Distillation yield between 86 & 88 deg C, the temperature being corrected for 760 mm Hg pressure, <i>Minimum</i>	% by Vol	94
7	Moisture, w/w, <i>Maximum</i>	ppm	200
8	Free Chlorine	-	Shall not show any free chlorine
9	Alkalinity, as Na <sub>2</sub> CO <sub>3</sub> , w/w, <i>Maximum</i>	Percent by mass	0.0025
10	Resistance to corrosion	-	Shall pass the test
11	Stability under reflux	Percent by mass	Shall not show any acidity exceeding the equivalent of 0.020 percent by mass of Hydrochloric Acid

## For information only

12	Purity by GC, w/w, <i>Minimum</i>	%	Informative
13	pH	-	Informative

Reference : IS:245-1988 (III revision), amended Dec-95 &amp; May-02.

## Abbreviations:

QA1 Quality Assurance Module-1

ANS Analytical Specification

FP Finished Product

w/w weight by weight

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Manager - QA	Head - TAG & QA	AVP - FCB	SVP & HOM	SVP (S&M) - FC



SRF Limited

Fluorochemicals Business, Dahej

Finished Product - Specification

Chemical Name	Trichloroethylene - Vapour Degreasing Grade			DC No.	QA1/ ANS/ FP/ TCE - ASTM
Chemical formula	C <sub>2</sub> HCl <sub>3</sub>	Mol.wt	131.4	CAS No.:	79-01-6
Issue Date	18.04.13		Revision Date	03.02.16	
Issue No.	1		Revision No.	3	

S. No.	Characteristics	Unit	Specification
1	Appearance	-	Clear and free from suspended matter
2	Color, <i>Maximum</i>	Pt-Co	20
3	Specific gravity, 25/25°C	-	1.450 - 1.460
4	Distillation range (760 mm Hg) Initial boiling point, <i>Minimum</i>	°C	85.0
5	Dry point, <i>Maximum</i>	°C	90.0
6	Water, w/w, <i>Maximum</i>	%	0.01
7	Halide (as Chloride) , w/w, <i>Maximum</i>	%	0.0005
8	Acidity, as Hydrochloric Acid (HCl), w/w, <i>Maximum</i>	%	0.0005
9	Alkanity, as Sodium Hydroxide (NaOH), w/w, <i>Maximum</i>	%	0.01
10	Non volatile residue, w/w, <i>Maximum</i>	%	0.005
11	Acid acceptance (as NaOH), w/w, <i>Minimum</i>	%	0.16

Reference : ASTM, Volume 15.05 D4080-00 (2006), page no. 165.

**Abbreviations:**

- QA1      Quality Assurance Module-1
- ANS      Analytical Specification
- FP        Finished Product
- w/w      weight by weight
- v/v        volume by volume

**CONTROLLED**

Prepared by	Checked by	Accepted by	Reviewed by	Approved by
Manager - QA	Head - TAG & QA	AVP - FCB	SVR & HOM	SVP (S&M) - FC