

## 1,1,1-Trichloroethane [71-55-6]

Results of Testing

Chemical Name	CAS No.	Study Code/Type	Protocol/Guideline	Species	Exposure	Dose/Concentration	No. per Group	Results	Reference
1,1,1-Trichloroethane	71-55-6	HECTOXCARC Oncogenicity (Voluntary test)	Non-TSCA Protocol/ Guideline	rats	inhalation, 6 hr/d, 5 d/wk, 2 yrs	0, 150, 500, 1500 ppm	80/sex/group	Hematology, urinalysis, and clinical chemistry findings were unaffected by treatment. Microscopic findings of the livers of rats exposed to 1500 ppm revealed an accentuation of the normal hepatic lobular pattern consisting of altered cytoplasmic staining in the cells surrounding the central vein.	51 FR 27598; 8/1/86 OTS0510656
1,1,1-Trichloroethane	71-55-6	HEGTOXCHRM Mouse bone marrow micronucleus test	Non-TSCA Protocol/Guideline (docket OPPTS- 42059E)	mice	inhalation, in vivo, 6 hr	0, 1700, 4300, 6800 ppm	5/sex	No evidence of increased clastogenicity was observed.	55 FR 50055; 12/04/90 OTS0533133
1,1,1-Trichloroethane	71-55-6	HENEUR Functional observational battery	Non-TSCA Protocol/Guideline (docket OPPTS- 42059E)	rats	inhalation, 6 hr/d, 5 d/wk, 13 wks	0, 200, 630, 2000 ppm	14/sex	No treatment related findings were seen except that a slightly smaller forelimb grip performance was reported in the 2000 ppm group.	56 FR 5688; 2/12/91 OTS0533136
1,1,1-Trichloroethane	71-55-6	HENEUR Motor activity	Non-TSCA Protocol/Guideline (docket OPPTS- 42059E)	rats	inhalation, 6 hr/d, 4 days	4000 ppm	Not specified	Decreased activity occurred in males and females after the 1st day's exposure. Day 4 data showed slightly increased motor activity among males and slightly decreased activity among females.	56 FR 5688; 1/12/91 OTS0533134
1,1,1-Trichloroethane	71-55-6	HENEUR Neuropathology	Non-TSCA Protocol/Guideline (docket OPPTS- 42059E)	rats	inhalation, 6 hr/d, 5 d/wk, 13 wks	0, 200, 630, 2000 ppm	14/sex	Histopathologic examination of the brain, spinal cord, peripheral nerves, and limb muscles revealed no effects from exposure.	56 FR 28893; 6/25/91 OTS0533136
1,1,1-Trichloroethane	71-55-6	HENEUR Sensory evoked potential battery	Non-TSCA Protocol/Guideline (docket OPPTS- 42059E)	rats	inhalation, 6 hr/d, 4 days	0, 1000, 2000 ppm	10 females	Tests after exposure on day 4 revealed altered large flash evoked potential and electroencephalogram and slowed high frequency components of the somatosensory evoked potential in rats at 2000 ppm; smaller changes in evoked potential and eeg were seen at 1000 ppm.	56 FR 28893; 6/25/91 OTS0533134

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Chemical Name	CAS No.	Study Code/Type	Protocol/Guideline	Species	Exposure	Dose/Concentration	No. per Group	Results	Reference
1,1,1-Trichloroethane	71-55-6	HENEUR Developmental neurotoxicity	Non-TSCA Protocol/Guideline (docket OPPTS-42059E)	rats	gavage, gestation day 6 - lactation day 10	75, 250, 750 mg/kg	4/sex	There were no effects attributed to treatment on maturational landmarks. Statistically significant decreases in pup weights were noted, but not considered biologically significant. No treatment-related effects were seen in any of the FOB parameters. Motor activity was not affected either in pups tested in the neonatal or young adult stage. There were no observed neurologic lesions and no brain measurement differences attributable to treatment in rats at 28 or 62 days of age. Finally, the test substance did not have any effects on short-term memory, learning, or performance.	58 FR 40427; 7/28/93, Docket OPPTS-44600
1,1,1-Trichloroethane	71-55-6	HERTOXTERA Developmental study	Non-TSCA Protocol/Guideline (docket OPPTS-42059B)	rabbits	inhalation, days 6-15 of gestation	0, 1000, 3000, 6000 ppm	unreported number of females	There was a decrease in maternal weight gain and food consumption (3000 and 6000 ppm). Clinical observations included ocular discharge, loose feces, and decreased body weight gain (6000 ppm). Percentage of live fetuses per litter was reduced at 6000 ppm. The no-observed effect level (NOEL) was 1000 ppm.	52 FR 26564; 7/15/87 OTS0510654
1,1,1-Trichloroethane	71-55-6	HERTOXTERA Developmental study	Non-TSCA Protocol/Guideline (docket OPPTS-42059B)	rats	inhalation, days 6-15 of gestation	0, 1000, 3000, 6000 ppm	unreported number of females	Observations included decreases in maternal weight gain and food consumption (3000 and 6000 ppm). Maternal clinical observations were hypoactivity at 3000 and 6000 ppm, perioral wetness, and encrustation (6000 ppm). At 6000 ppm non-viable implantations/litters were increased compared to controls. The no-observable effect level (NOEL) was 1000 ppm.	52 FR 26564; 7/15/87 OTS0510654