

ATSDR's Substance-Specific Priority Data Needs – Being Filled via EPA/ATSDR Test Rule and/or Voluntary Research		
Substances	PDN Description	Status⁽¹⁾
Chloroethane	<ul style="list-style-type: none"> • Dose-response data in animals for acute⁽²⁾- and intermediate⁽³⁾-duration oral exposures. The intermediate-duration study should include an evaluation of immune and nervous system tissues, and extended reproductive organ histopathology • Dose-response data in animals for chronic⁽⁴⁾ inhalation exposures. The study should include an evaluation of nervous system tissues 	EPA/ATSDR test rule
Cyanide (Hydrogen cyanide and sodium cyanide)	<ul style="list-style-type: none"> • Dose-response data in animals for acute- and intermediate-duration exposures via inhalation. The intermediate-duration study should include extended reproductive organ histopathology and evaluation of neurobehavioral and neuropathological end points • Prenatal developmental toxicity study via oral exposure 	EPA/ATSDR test rule
Methylene chloride	<ul style="list-style-type: none"> • Neurotoxicity testing via oral exposure 	EPA/ATSDR test rule
Tetrachloroethylene	<ul style="list-style-type: none"> • Multigeneration reproductive toxicity study via oral exposure • Dose-response data in animals for intermediate-duration oral exposure, including neuropathology, and immunopathology • Prenatal developmental toxicity study via oral exposure • Developmental neurotoxicity study via oral exposure 	Voluntary Research
Trichloroethylene	<ul style="list-style-type: none"> • Neurotoxicology battery of tests via the oral route • Immunotoxicology battery of tests via the oral route • Prenatal developmental toxicity study via oral exposure • Developmental neurotoxicity study via oral exposure 	Voluntary Research

⁽¹⁾ EPA/ATSDR test rule: The priority data need is included in the EPA/ATSDR test rule. In the implementation of the Substance-Specific Applied Research Programs, ATSDR and the U.S. Environmental Protection Agency identified a subset of priority data needs for substances of mutual interest to the federal programs. These priority data needs are being addressed through a program of toxicological testing under the Toxic Substances Control Act according to established procedures and guidelines.

Voluntary Research: ATSDR encourages industry groups to volunteer to conduct studies to fill priority data needs at no expense to the Agency. The industry groups' study protocols and final reports are subjected to ATSDR's external peer review before the Agency's acceptance of the study results. In some instances, the studies conducted under voluntary research will also fill priority data needs included in the EPA/ATSDR test rule.

- (2) Acute-duration exposure =14 days or less.
- (3) Intermediate-duration exposure = 15-364 days.
- (4) Chronic-duration exposure = 365 days or more.