

The toxic action of viscous soman is attributable to its basic component, soman, which is a nerve agent. Viscous soman produces its effects through its introduction into the organism by any means.

The median lethal dose for intravenous administration of soman is as follows:

Guinea-pig: 0.014 mg/kg

White mouse: 0.084 mg/kg

VX

VX is a dark brown liquid with a high boiling point.

Physico-chemical characteristics:

Boiling point: Above 300°C

Freezing point: Below -66°C

Density: 1.014×10^3 kg/m³

Volatility: 0.54×10^{-5} kg/m³

Dynamic viscosity: 9.15×10^{-3} Pa.s

Surface tension: 2.96×10^{-2} kg/s²

Diffusion coefficient: 4.0×10^{-6} m²/s

Heat capacity: 1.928 kJ/kg.°C

VX produces its effects when it is introduced into the organism by various means.

The median lethal dose is as follows:

Intravenously:

White mouse: 0.0220 mg/kg

Rabbit: 0.0064 mg/kg

Percutaneously:

White rat: 0.090 mg/kg

Cat: 0.011 mg/kg

Viscous VX

Viscous VX is a yellowish-brown dense liquid, the basic component of which is the CW agent VX.