

Heat capacity: 1.911 kJ/kg.°C

Latent heat of evaporation:  $4.027 \times 10^2$  kJ/kg

Diffusion coefficient:  $5.92 \times 10^{-6}$  m<sup>2</sup>/s

Toxicologically, sarin is a nerve agent. It produces its effects after its introduction into the organism by any means.

**Toxicological characteristics:**

(Median toxic dose)

Intramuscularly, mg per kg of animal weight:

White mouse: 0.23

White rat: 0.074

Rabbit: 0.025

Guinea-pig: 0.037

Intravenously, mg per kg of animal weight:

Rabbit: 0.021

Guinea-pig: 0.019

By inhalation, 100 mg.min/m<sup>3</sup> for a rabbit.

**Viscous soman**

Viscous soman is a yellowish-brown, highly viscous liquid with a slight aromatic odour.

**Physico-chemical characteristics:**

Boiling point 190°C

Freezing point -80°C

Density:  $1.035 \times 10^3$  kg/m<sup>3</sup>

Volatility:  $2.65 \times 10^{-3}$  kg/m<sup>3</sup>

Dynamic viscosity:  $17.5 \times 10^{-2}$  Pa.s

Surface tension:  $2.65 \times 10^{-2}$  kg/s<sup>2</sup>

Diffusion coefficient:  $4.83 \times 10^{-6}$  m<sup>2</sup>/s

Heat capacity: 2.205 kJ/kg.°C