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The invention relates to processes for preparation of photosensitive cadmium sulphide layers, which can be used as components for optoelectronic apparatus, functioning over a short wave range.

The process includes heating of a glass or silicon support up to a temperature of 300...350°C, atomization thereon of a mixture of cadmium salt and complexing agent in solvent. As cadmium salt is used $\text{Cd}(\text{NO}_3)_2$, as complexing agent - thiosemicarbazide in solvent, in the equimolar amount, and as solvent - dimethyl formamide. The mixture of $\text{Cd}(\text{NO}_3)_2$ and thiosemicarbazide in dimethyl formamide is atomized at the room temperature during 40...50 s.