

Development of Novel Crystals for Strong Electro-Optic Effect: Rubidium Hydrogen Selenate

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Abstract: *The use of highly efficient devices for the treatment of the optical signal continuously drives the research of new optical materials¹⁻¹¹ for various specific applications. This demand for wideband electro-optic modulators using the pockets effect need high optical quality materials with large electro-optical coefficients and other requirements such as low electric losses and permittivity. Rubidium Hydrogen Selenate (RHSe) Abbreviated name of compound used in the above investigation is put in small bracket which have frequently been used through the paper. Experimental work done to determine purification of RHSe (RbHSeO₄) preparation material described in detail, studied crystal growth and effect of growth parameters on the optical quality towards the end. Experimental observations are described in the form of figures and tables.*

Keywords: Electro-optic effect, crystal growth, RHSe