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Rubycond_calc

Ruby and Samarium fluorescence pressure / wavelength calculators

Ruby Tab

Rubycond Pressure Calculator Version = 0.2.0 Release = 260301

Calculator
About Calculator

Ruby Cr³⁺:Al₂O₃
Samarium Sm²⁺:SrB₄O₇

Initial Parameters

λ₀ = 694.25 nm

T(λ₀) = 293.15 K / 20.00 °C

Parameters

λ = 694.25 nm

P = 20.00 GPa

Shen 2020

T(λ) = 293.15 K / 20.00 °C

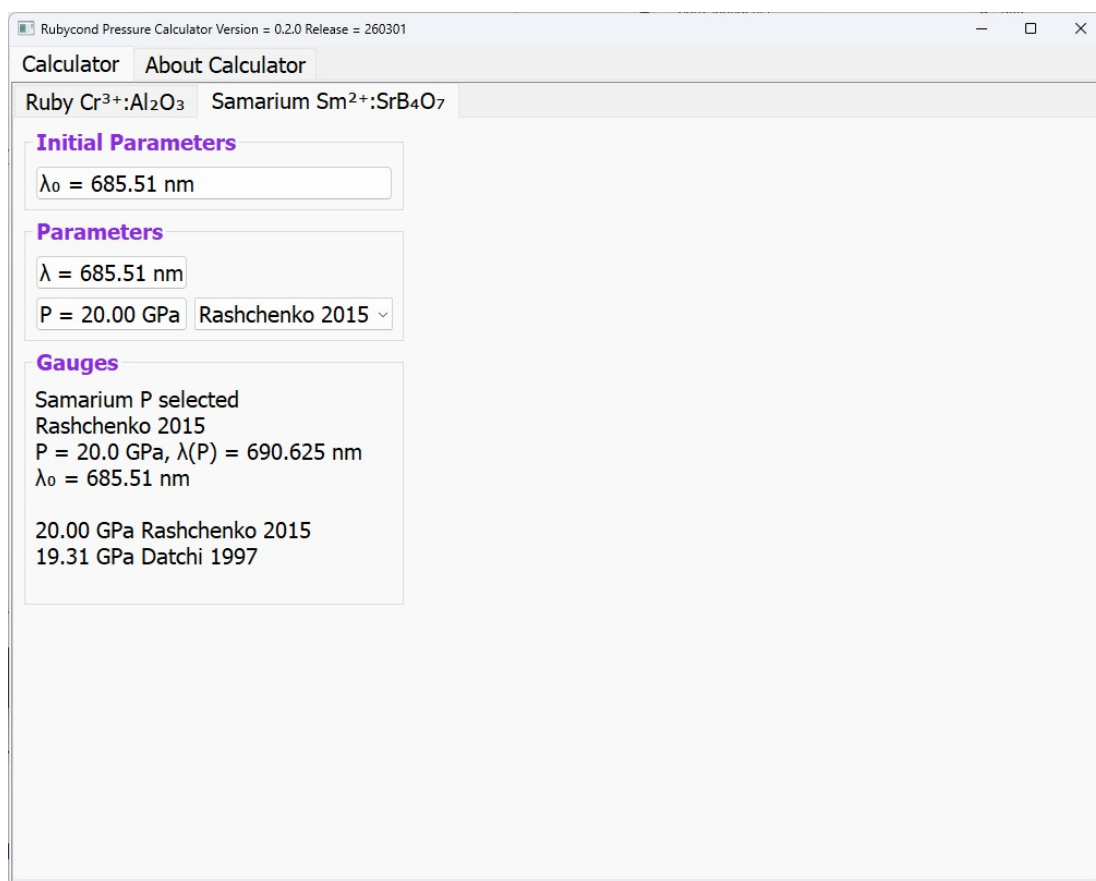
Not Used

Gauges

Ruby P selected
Shen 2020
P = 20.0 GPa, λ(P) = 701.275 nm
λ₀ = 694.25 nm, T Not Implemented

20.00 GPa Shen 2020
19.93 GPa Mao hydro 1986
19.66 GPa Mao non hydro 1986
20.30 GPa Dewaele 2008
20.12 GPa Dorogokupets and Oganov 2007

Samarium Tab



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Release notes

Version 0.2.0 Release 260301