

Symbol (units)	Parameter	Value	Uncertainty	Reference
ν_i (kHz)	Resonant line frequency	Table 1*	Table 1*	Tretyakov et al. (2005)
S_i (Hz cm ⁻²)	Resonant line intensity	HITRAN 2004	1 %	Rothman et al. (2005) and this work
n_S (unitless)	Resonant line intensity temperature-dependence exponent	2.0	0.1 %	Gamache et al. (2017) This work
E_{low} (cm ⁻¹)	Resonant line lower-state energy	HITRAN 2004	0.25 %	This work
γ_i (GHz bar ⁻¹)	Resonant line air broadening	Table 5*	Table 1* + this work	Tretyakov et al. (2005) Koshelev et al. (2016)
n_a (unitless)	Resonant line air-broadening temperature-dependence exponent	0.80	0.05	Koshelev et al. (2016)
y_i (bar ⁻¹)	Resonant line mixing	Table 5*	This work	Tretyakov et al. (2005)
V_i (bar ⁻¹)	Resonant line-mixing temperature dependence	Table 5*	This work	Liebe et al. (1992) Tretyakov et al. (2005)
r_{w2a} (unitless)	Resonant line water-to-air broadening ratio	1.20	0.05	Koshelev et al. (2015)
γ_0 (GHz bar ⁻¹)	Zero-frequency line pressure broadening	0.56	0.05	This work (based on Danese and Partridge, 1989)