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Table S-1. Wavelength, excitation energies, and transition probabilities of lines of the OH (0,0) rotational band ($A^2\Sigma^+ \rightarrow X^2\Pi_i$), which were used for calculation of the OH rotational temperature. Fundamental data are taken from [1].

Wavelength (nm)	Transition probability (GHz)	Excitation energy (eV)
308.328	3.37	4.06414
308.520	4.22	4.08507
308.734	5.06	4.11009
309.859	8.41	4.25
311.022	10.88	4.396
313.689	14.96	4.712
314.301	15.77	4.785
314.746	4.75	4.29517
317.708	6.4	4.51219
318.608	6.81	4.57538
319.485	7.22	4.64199

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Table S-2. Wavelength, excitation energies, transition probabilities and level degeneracy of Fe lines, which were used for calculation of the excitation temperature. Fundamental data are taken from [2].

Wavelength (nm)	Transition probability (MHz)	Excitation energy (eV)	Degeneracy
370.557	3.21	3.39651	7
370.925	15.6	4.25622	7
371.994	16.2	3.33202	11
372.256	4.97	3.41695	5
372.762	22.4	4.28331	5
373.24	26.9	5.51876	5
373.332	6.48	3.43019	3
373.487	90.1	4.1777	11
373.713	14.1	3.36826	9
373.831	34.4	6.58276	13
374.556	11.5	3.39651	7
374.826	9.15	3.41695	5
374.949	76.3	4.22036	9
375.824	63.4	4.25622	7
376.379	54.4	4.28331	5
376.554	95.1	6.52839	15
376.719	63.9	4.30128	3
378.788	12.9	4.28331	5
379.5	11.5	4.25622	7

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- 1 G.H. Dieke, H.M. Crosswhite, *J. Quant. Spectrosc. Radiat. Transfer*, 1962, **2**, 97.
- 2 NIST Atomic Spectra Database, available: <http://physics.nist.gov/asd>. National Institute of Standards and Technology, Gaithersburg, MD.