

## Supporting Information:

1000/T (K <sup>-1</sup> )	$\sigma_{\text{diss}}(2\nu_1)$ cm <sup>2</sup> molecule <sup>-1</sup> cm <sup>-1</sup>	1000/T (K <sup>-1</sup> )	$\sigma_{\text{diss}}(\nu_1+2\nu_3)$ cm <sup>2</sup> molecule <sup>-1</sup> cm <sup>-1</sup>	1000/T (K <sup>-1</sup> )	$\sigma_{\text{diss}}(2\nu_1+\nu_3)$ cm <sup>2</sup> molecule <sup>-1</sup> cm <sup>-1</sup>	1000/T (K <sup>-1</sup> )	Photolysis Rate ( $\times 10^{-6}$ s <sup>-1</sup> )
3.3860	2.4200e-19	3.5978	9.2280e-22	3.3841	9.0298e-21	3.3333	14.68
3.3860	2.2300e-19	3.6017	1.4074e-21	3.3727	1.2093e-20	3.3898	14.09
3.4870	2.3100e-19	3.7467	1.9057e-21	3.3670	1.1489e-20	3.4483	13.51
3.6000	1.8200e-19	3.7411	7.0187e-22	3.4795	1.0597e-20	3.5088	12.93
3.7510	1.9400e-19	3.8971	4.6712e-22	3.5855	9.7892e-21	3.5714	12.37
3.8960	1.5700e-19	3.5855	1.5517e-21	3.7523	1.2267e-20	3.6364	11.82
3.8960	1.8800e-19	3.7523	1.5893e-21	3.8971	1.2663e-20	3.7037	11.28
4.0390	1.2900e-19	3.8971	1.1179e-21	4.0404	1.4005e-20	3.7736	10.74
4.1550	1.4500e-19	4.0404	1.2207e-21	4.1545	1.2585e-20	3.8462	10.22
3.6980	2.3800e-19	4.0404	3.5855e-22	4.2355	1.1431e-20	3.9216	9.71
3.9310	1.8100e-19	4.1545	2.9630e-22	3.4014	1.5707e-20	4.0000	9.22
3.5350	2.5100e-19	4.1545	5.2178e-22	3.6630	8.9443e-21	4.0816	8.73
3.6630	1.6400e-19	4.2355	2.7334e-22	3.7175	1.0476e-20	4.1667	8.26
3.7860	1.5300e-19	4.2355	8.2214e-22	3.8760	1.2114e-20	4.2553	7.81
3.9420	1.6200e-19	4.2355	3.2460e-22	3.8760	1.2740e-20	4.3478	7.37
3.9370	1.9300e-19	4.2355	6.7289e-22	4.0486	1.4085e-20	4.4444	6.94
4.0910	1.3500e-19	3.9730	1.6650e-21	4.1322	1.4529e-20	4.5455	6.53
4.0970	1.3700e-19	3.9122	1.0198e-21	3.6049	1.7122e-20	4.6512	6.14
4.2680	1.1900e-19	3.6630	2.0708e-21	3.9108	8.7539e-21	4.7619	5.76
4.4550	9.7300e-20	3.7594	1.1471e-21			4.8780	5.40
4.4600	9.3500e-20	3.7608	8.2704e-22			5.0000	5.06
		3.7651	9.0780e-22				
		3.9017	8.8007e-22				
		3.8971	8.2274e-22				
		4.0404	2.5583e-22				
		4.0404	7.3049e-22				
		4.1545	4.6399e-22				
		4.1563	6.0877e-22				
		3.5894	9.5175e-22				
		3.5932	9.1375e-22				
		3.5939	3.0096e-22				

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