

A VUV Photoionization Study of the Multichannel Reaction of the Phenyl Radical with 1,3-Butadiene under Combustion Relevant Conditions

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Supplementary material

Table S1. Photoionization efficiency curves of the C₁₀H₁₀ isomers used to fit m/z 130 in Figure 3.

Photon energy (eV)	m/z 130	1-methylindene	2-methylindene	1,3-butadienyl-benzene	1,2-dihydronaphthalene	1,4-dihydronaphthalene
7.4	3.48598E-6	1.77932E-4	0	0	0	0
7.45	0.00159	1.04673E-4	0	0	0	0
7.5	0.00157	8.48484E-5	0	3.34364E-5	0	0
7.55	0.00149	2.76705E-5	0	3.80804E-5	0	0
7.6	0.00385	-3.68334E-5	0	0	0	0
7.65	0.00139	1.35874E-4	0	0	0	0
7.7	0.00686	1.17844E-4	0	3.32788E-5	0	-0.00193
7.75	0.01939	1.62248E-4	0	1.23435E-4	0	-0.00246
7.8	0.01426	3.06875E-6	0	4.04426E-4	0	0.00577
7.85	0.02318	9.3947E-4	0	0.00285	0	0.00456
7.9	0.03902	0.00626	0	0.02526	0.01374	0.02341
7.95	0.0811	0.03897	0	0.0731	0.04088	0.03362
8	0.11953	0.11036	0	0.12134	0.0669	0.05665
8.05	0.15811	0.1673	0	0.1686	0.09852	0.10715
8.1	0.21481	0.21006	0.08808	0.21262	0.1325	0.14728
8.15	0.2641	0.27277	0.16825	0.26227	0.11754	0.19804
8.2	0.32243	0.33502	0.22344	0.31019	0.18099	0.22534
8.25	0.35887	0.39148	0.2449	0.34671	0.2159	0.29634
8.3	0.40619	0.45258	0.3014	0.39366	0.26344	0.33635
8.35	0.44438	0.50117	0.38222	0.43101	0.29768	0.37678
8.4	0.50151	0.53654	0.39601	0.45211	0.34242	0.46702
8.45	0.49625	0.56584	0.48543	0.49904	0.40662	0.52305
8.5	0.58593	0.58783	0.52612	0.54067	0.46497	0.56206
8.55	0.60867	0.62656	0.6919	0.6	0.49398	0.6367
8.6	0.71801	0.74512	0.68726	0.6525	0.58098	0.6944
8.65	0.81417	0.80775	0.81371	0.70544	0.69973	0.74262
8.7	0.8872	0.81614	0.82398	0.79592	0.76526	0.86403
8.75	0.9304	0.86672	0.93789	0.91715	0.85133	0.91057
8.8	1	1	1	1	1	1