

Research on TNTON/DNTF Eutectic Characteristics: An Exploration of Low Eutectic Mixture based Melt-cast Explosive Carriers

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Supplementary Materials

Table S1 Apparent activation energy (E_a) for different conversion degree for TNTON/DNTF eutectic decomposition reaction

Conversion degree	$E_a/\text{kJ mol}^{-1}$	$\pm\text{Error} / (\text{kJ/mol})$
0.01	127.340	32.965
0.02	127.340	24.047
0.03	118.551	16.064
0.04	113.078	12.211
0.05	110.327	9.323
0.06	109.158	8.720
0.07	108.661	8.015
0.08	108.410	7.581
0.09	108.228	7.536
0.10	108.061	7.517
0.11	107.880	7.432
0.12	107.657	7.546
0.13	107.365	7.640
0.14	106.988	7.717
0.15	106.557	7.953
0.16	106.129	8.265
0.17	105.776	8.527
0.18	105.500	8.717
0.19	105.245	8.885
0.20	104.902	9.032
0.21	104.410	9.344
0.22	103.776	9.697
0.23	103.072	10.058

0.24	102.398	10.397
0.25	101.853	10.718
0.26	101.488	11.013
0.27	101.257	11.275
0.28	101.026	11.522
0.29	100.659	11.984
0.3	100.106	12.424
0.31	99.419	12.454
0.32	98.680	12.734
0.33	97.945	13.051
0.34	97.231	13.363
0.35	96.543	13.670
0.36	95.891	13.970
0.37	95.289	14.265
0.38	94.734	14.746
0.39	94.193	15.367
0.40	93.629	15.557
0.41	93.025	15.492
0.42	92.399	15.442
0.43	91.776	15.638
0.44	91.162	15.848
0.45	90.528	16.061
0.46	89.825	16.277
0.47	88.998	16.564
0.48	88.032	17.039
0.49	86.978	17.514
0.5	85.933	17.985
0.51	85.013	17.709
0.52	84.269	17.490
0.53	83.682	17.275
0.54	83.157	17.253
0.55	82.605	17.275
0.56	81.963	17.386
0.57	81.226	17.579
0.58	80.416	17.774
0.59	79.558	17.970
0.6	78.655	18.167
0.61	77.695	18.148
0.62	76.697	17.675
0.63	75.720	17.189
0.64	74.856	16.935
0.65	74.143	16.839
0.66	73.566	16.738
0.67	73.055	16.630
0.68	72.553	16.516
0.69	72.013	16.396
0.70	71.401	16.269
0.71	70.698	15.858
0.72	69.918	15.404
0.73	69.127	15.104

0.74	68.410	14.809
0.75	67.841	14.529
0.76	67.418	14.266
0.77	67.092	14.032
0.78	66.793	13.772
0.79	66.483	13.538
0.80	66.134	13.432
0.81	65.743	13.346
0.82	65.353	13.297
0.83	65.055	13.263
0.84	64.907	13.232
0.85	64.883	13.438
0.86	64.894	13.666
0.87	64.880	13.913
0.88	64.849	14.188
0.89	64.862	14.558
0.90	64.946	14.872
0.91	65.082	15.214
0.92	65.197	15.741
0.93	65.259	16.073
0.94	65.226	16.458
0.95	65.051	17.153
0.96	64.621	17.468
0.97	63.856	18.165
0.98	62.766	18.945
0.99	61.478	19.740
