

Kinematics Tables

p3Hep3He in Melamine				12C3Hep14N1st in Melamine			
Q-value 7.28, E = 18.00, Ex = 0.00				Q-value 4.78, E = 18.00, Ex = 2.31			
deg	total energy	E - dE	dE	deg	total energy	E - dE	dE
20.9	2.1183e+01	2.1074e+01	1.0898e-01	20.9	1.9411e+01	1.9293e+01	1.1793e-01
25.9	2.0269e+01	2.0156e+01	1.1304e-01	25.9	1.9243e+01	1.9124e+01	1.1878e-01
30.9	1.9212e+01	1.9094e+01	1.1818e-01	30.9	1.9045e+01	1.8925e+01	1.1981e-01
35.9	1.8038e+01	1.7914e+01	1.2451e-01	35.9	1.8817e+01	1.8696e+01	1.2101e-01
40.9	1.6778e+01	1.6646e+01	1.3219e-01	40.9	1.8563e+01	1.8441e+01	1.2237e-01
45.9	1.5461e+01	1.5319e+01	1.4139e-01	45.9	1.8286e+01	1.8162e+01	1.2391e-01
50.9	1.4117e+01	1.3964e+01	1.5235e-01	50.9	1.7988e+01	1.7863e+01	1.2560e-01
55.9	1.2775e+01	1.2610e+01	1.6533e-01	55.9	1.7673e+01	1.7546e+01	1.2745e-01
60.9	1.1463e+01	1.1282e+01	1.8061e-01	60.9	1.7308e+01	1.7179e+01	1.2966e-01
70.9	9.0349e+00	8.8158e+00	2.1911e-01	70.9	1.6631e+01	1.6497e+01	1.3400e-01
80.9	6.9529e+00	6.6822e+00	2.7072e-01	80.9	1.5938e+01	1.5799e+01	1.3878e-01

12C3Hep14N in Melamine				12C3Hep14N2nd in Melamine			
Q-value 4.78, E = 18.00, Ex = 0.00				Q-value 4.78, E = 18.00, Ex = 3.95			
deg	total energy	E - dE	dE	deg	total energy	E - dE	dE
20.9	2.1812e+01	2.1705e+01	1.0704e-01	20.9	1.7702e+01	1.7575e+01	1.2727e-01
25.9	2.1636e+01	2.1528e+01	1.0777e-01	25.9	1.7542e+01	1.7413e+01	1.2824e-01
30.9	2.1427e+01	2.1318e+01	1.0864e-01	30.9	1.7351e+01	1.7221e+01	1.2940e-01
35.9	2.1187e+01	2.1077e+01	1.0967e-01	35.9	1.7132e+01	1.7002e+01	1.3076e-01
40.9	2.0919e+01	2.0808e+01	1.1083e-01	40.9	1.6889e+01	1.6757e+01	1.3231e-01
45.9	2.0626e+01	2.0514e+01	1.1214e-01	45.9	1.6623e+01	1.6489e+01	1.3405e-01
50.9	2.0312e+01	2.0199e+01	1.1357e-01	50.9	1.6338e+01	1.6202e+01	1.3598e-01
55.9	1.9979e+01	1.9864e+01	1.1514e-01	55.9	1.6036e+01	1.5898e+01	1.3808e-01
60.9	1.9594e+01	1.9477e+01	1.1702e-01	60.9	1.5686e+01	1.5545e+01	1.4061e-01
70.9	1.8876e+01	1.8755e+01	1.2070e-01	70.9	1.5039e+01	1.4894e+01	1.4556e-01
80.9	1.8139e+01	1.8015e+01	1.2473e-01	80.9	1.4380e+01	1.4229e+01	1.5102e-01

14N3Hep16O in Melamine			
Q-value 15.24, E = 18.00, Ex = 0.00			
deg	total energy	E - dE	dE
20.9	3.2597e+01	3.2520e+01	7.6419e-02
25.9	3.2412e+01	3.2335e+01	7.6787e-02
30.9	3.2193e+01	3.2115e+01	7.7229e-02
35.9	3.1940e+01	3.1862e+01	7.7744e-02
40.9	3.1658e+01	3.1579e+01	7.8330e-02
45.9	3.1348e+01	3.1269e+01	7.8984e-02
50.9	3.1013e+01	3.0934e+01	7.9701e-02
55.9	3.0658e+01	3.0577e+01	8.0480e-02
60.9	3.0244e+01	3.0163e+01	8.1408e-02
70.9	2.9465e+01	2.9382e+01	8.3216e-02
80.9	2.8659e+01	2.8574e+01	8.5182e-02

14N3Hep16O2nd in Melamine			
Q-value 15.24, E = 18.00, Ex = 6.13			
deg	total energy	E - dE	dE
20.9	2.6363e+01	2.6272e+01	9.1370e-02
25.9	2.6196e+01	2.6104e+01	9.1859e-02
30.9	2.5997e+01	2.5904e+01	9.2449e-02
35.9	2.5768e+01	2.5675e+01	9.3136e-02
40.9	2.5512e+01	2.5418e+01	9.3918e-02
45.9	2.5231e+01	2.5137e+01	9.4791e-02
50.9	2.4929e+01	2.4834e+01	9.5751e-02
55.9	2.4608e+01	2.4512e+01	9.6795e-02
60.9	2.4232e+01	2.4134e+01	9.8048e-02
70.9	2.3533e+01	2.3432e+01	1.0048e-01
80.9	2.2810e+01	2.2707e+01	1.0313e-01

14N3Hep16O1st in Melamine			
Q-value 15.24, E = 18.00, Ex = 6.05			
deg	total energy	E - dE	dE
20.9	2.6445e+01	2.6354e+01	9.1132e-02
25.9	2.6278e+01	2.6186e+01	9.1619e-02
30.9	2.6078e+01	2.5986e+01	9.2206e-02
35.9	2.5849e+01	2.5756e+01	9.2890e-02
40.9	2.5593e+01	2.5499e+01	9.3669e-02
45.9	2.5312e+01	2.5217e+01	9.4538e-02
50.9	2.5009e+01	2.4914e+01	9.5494e-02
55.9	2.4688e+01	2.4591e+01	9.6533e-02
60.9	2.4312e+01	2.4214e+01	9.7782e-02
70.9	2.3611e+01	2.3511e+01	1.0020e-01
80.9	2.2887e+01	2.2784e+01	1.0284e-01

12C3Hed13N in Melamine			
Q-value -3.55, E = 18.00, Ex = 0.00			
deg	total energy	E - dE	dE
20.9	1.3559e+01	1.3283e+01	2.7564e-01
25.9	1.3343e+01	1.3064e+01	2.7915e-01
30.9	1.3090e+01	1.2806e+01	2.8342e-01
35.9	1.2801e+01	1.2512e+01	2.8846e-01
40.9	1.2482e+01	1.2187e+01	2.9427e-01
45.9	1.2136e+01	1.1835e+01	3.0086e-01
50.9	1.1768e+01	1.1460e+01	3.0824e-01
55.9	1.1383e+01	1.1067e+01	3.1642e-01
60.9	1.0965e+01	1.0639e+01	3.2587e-01
70.9	1.0173e+01	9.8271e+00	3.4563e-01
80.9	9.3870e+00	9.0189e+00	3.6809e-01

12C3Hed13N1st in Melamine			
Q-value -3.55, E = 18.00, Ex = 2.36			
deg	total energy	E - dE	dE
20.9	1.1041e+01	1.0717e+01	3.2410e-01
25.9	1.0842e+01	1.0513e+01	3.2877e-01
30.9	1.0607e+01	1.0273e+01	3.3446e-01
35.9	1.0341e+01	9.9999e+00	3.4120e-01
40.9	1.0047e+01	9.6980e+00	3.4901e-01
45.9	9.7294e+00	9.3715e+00	3.5791e-01
50.9	9.3925e+00	9.0246e+00	3.6792e-01
55.9	9.0401e+00	8.6610e+00	3.7909e-01
60.9	8.6612e+00	8.2693e+00	3.9199e-01
70.9	7.9470e+00	7.5278e+00	4.1923e-01
80.9	7.2444e+00	6.7938e+00	4.5061e-01

14N3Hed15O in Melamine			
Q-value 1.80, E = 18.00, Ex = 0.00			
deg	total energy	E - dE	dE
20.9	1.9166e+01	1.8957e+01	2.0920e-01
25.9	1.8952e+01	1.8741e+01	2.1109e-01
30.9	1.8699e+01	1.8485e+01	2.1338e-01
35.9	1.8409e+01	1.8193e+01	2.1607e-01
40.9	1.8087e+01	1.7868e+01	2.1914e-01
45.9	1.7737e+01	1.7514e+01	2.2260e-01
50.9	1.7362e+01	1.7135e+01	2.2644e-01
55.9	1.6966e+01	1.6736e+01	2.3064e-01
60.9	1.6527e+01	1.6291e+01	2.3553e-01
70.9	1.5690e+01	1.5444e+01	2.4548e-01
80.9	1.4843e+01	1.4587e+01	2.5655e-01

12C3Hed13N2nd in Melamine			
Q-value -3.55, E = 18.00, Ex = 3.50			
deg	total energy	E - dE	dE
20.9	9.8060e+00	9.4503e+00	3.5572e-01
25.9	9.6153e+00	9.2540e+00	3.6123e-01
30.9	9.3908e+00	9.0228e+00	3.6797e-01
35.9	9.1362e+00	8.7602e+00	3.7597e-01
40.9	8.8553e+00	8.4701e+00	3.8526e-01
45.9	8.5524e+00	8.1566e+00	3.9588e-01
50.9	8.2315e+00	7.8236e+00	4.0788e-01
55.9	7.8962e+00	7.4749e+00	4.2133e-01
60.9	7.5384e+00	7.1016e+00	4.3685e-01
70.9	6.8656e+00	6.3957e+00	4.6989e-01
80.9	6.2069e+00	5.6985e+00	5.0835e-01

14N3Hed15O1st in Melamine			
Q-value 1.80, E = 18.00, Ex = 5.18			
deg	total energy	E - dE	dE
20.9	1.3838e+01	1.3567e+01	2.7122e-01
25.9	1.3651e+01	1.3377e+01	2.7416e-01
30.9	1.3430e+01	1.3152e+01	2.7772e-01
35.9	1.3178e+01	1.2896e+01	2.8192e-01
40.9	1.2898e+01	1.2611e+01	2.8675e-01
45.9	1.2594e+01	1.2301e+01	2.9220e-01
50.9	1.2269e+01	1.1971e+01	2.9828e-01
55.9	1.1928e+01	1.1623e+01	3.0499e-01
60.9	1.1551e+01	1.1238e+01	3.1280e-01
70.9	1.0841e+01	1.0512e+01	3.2880e-01
80.9	1.0129e+01	9.7823e+00	3.4679e-01

14N3Hed15O2nd in Melamine			
Q-value 1.80, E = 18.00, Ex = 5.24			
deg	total energy	E - dE	dE
20.9	1.3778e+01	1.3506e+01	2.7216e-01
25.9	1.3591e+01	1.3316e+01	2.7512e-01
30.9	1.3370e+01	1.3092e+01	2.7870e-01
35.9	1.3118e+01	1.2835e+01	2.8293e-01
40.9	1.2839e+01	1.2551e+01	2.8778e-01
45.9	1.2536e+01	1.2242e+01	2.9327e-01
50.9	1.2212e+01	1.1912e+01	2.9939e-01
55.9	1.1871e+01	1.1565e+01	3.0614e-01
60.9	1.1495e+01	1.1181e+01	3.1400e-01
70.9	1.0786e+01	1.0456e+01	3.3010e-01
80.9	1.0076e+01	9.7280e+00	3.4822e-01

14N3Het14O1st in Melamine			
Q-value -5.16, E = 18.00, Ex = 5.17			
deg	total energy	E - dE	dE
20.9	6.5652e+00	5.9100e+00	6.5522e-01
25.9	6.3790e+00	5.7093e+00	6.6969e-01
30.9	6.1609e+00	5.4733e+00	6.8763e-01
35.9	5.9148e+00	5.2055e+00	7.0927e-01
40.9	5.6449e+00	4.9099e+00	7.3494e-01
45.9	5.3553e+00	4.5903e+00	7.6505e-01
50.9	5.0500e+00	4.2498e+00	8.0018e-01
55.9	4.7317e+00	3.8905e+00	8.4117e-01
60.9	4.4247e+00	3.5388e+00	8.8586e-01
70.9	3.8251e+00	2.8326e+00	9.9251e-01
80.9	3.2515e+00	2.1212e+00	1.1303e+00

14N3Het14O in Melamine			
Q-value -5.16, E = 18.00, Ex = 0.00			
deg	total energy	E - dE	dE
20.9	1.2127e+01	1.1716e+01	4.1045e-01
25.9	1.1899e+01	1.1483e+01	4.1646e-01
30.9	1.1632e+01	1.1208e+01	4.2380e-01
35.9	1.1328e+01	1.0896e+01	4.3249e-01
40.9	1.0993e+01	1.0550e+01	4.4256e-01
45.9	1.0631e+01	1.0177e+01	4.5404e-01
50.9	1.0247e+01	9.7805e+00	4.6699e-01
55.9	9.8463e+00	9.3649e+00	4.8145e-01
60.9	9.4261e+00	8.9283e+00	4.9774e-01
70.9	8.6174e+00	8.0844e+00	5.3293e-01
80.9	7.8235e+00	7.2499e+00	5.7355e-01

14N3Het14O2nd in Melamine			
Q-value -5.16, E = 18.00, Ex = 5.92			
deg	total energy	E - dE	dE
20.9	5.7021e+00	4.9727e+00	7.2932e-01
25.9	5.5228e+00	4.7755e+00	7.4729e-01
30.9	5.3130e+00	4.5433e+00	7.6970e-01
35.9	5.0766e+00	4.2797e+00	7.9696e-01
40.9	4.8177e+00	3.9881e+00	8.2960e-01
45.9	4.5403e+00	3.6719e+00	8.6837e-01
50.9	4.2479e+00	3.3336e+00	9.1433e-01
55.9	3.9430e+00	2.9739e+00	9.6909e-01
60.9	3.6585e+00	2.6304e+00	1.0281e+00
70.9	3.0959e+00	1.9193e+00	1.1766e+00
80.9	2.5602e+00	1.1794e+00	1.3808e+00

14N3Het14O3rd in Melamine			
Q-value -5.16, E = 18.00, Ex = 6.27			
deg	total energy	E - dE	dE
20.9	5.2857e+00	4.5129e+00	7.7274e-01
25.9	5.1097e+00	4.3167e+00	7.9300e-01
30.9	4.9040e+00	4.0856e+00	8.1838e-01
35.9	4.6723e+00	3.8229e+00	8.4940e-01
40.9	4.4187e+00	3.5319e+00	8.8679e-01
45.9	4.1471e+00	3.2155e+00	9.3159e-01
50.9	3.8608e+00	2.8756e+00	9.8526e-01
55.9	3.5621e+00	2.5119e+00	1.0502e+00
60.9	3.2893e+00	2.1695e+00	1.1197e+00
70.9	2.7448e+00	1.4437e+00	1.3011e+00
80.9	2.2273e+00	6.7514e-01	1.5521e+00

12C3He3He12C1st in Melamine			
Q-value 0.00, E = 18.00, Ex = 4.44			
deg	total energy	E - dE	dE
20.9	1.2644e+01	1.0991e+01	1.6524e+00
25.9	1.2365e+01	1.0682e+01	1.6838e+00
30.9	1.2037e+01	1.0314e+01	1.7226e+00
35.9	1.1664e+01	9.8942e+00	1.7693e+00
40.9	1.1250e+01	9.4254e+00	1.8248e+00
45.9	1.0802e+01	8.9118e+00	1.8898e+00
50.9	1.0322e+01	8.3562e+00	1.9659e+00
55.9	9.8139e+00	7.7588e+00	2.0551e+00
60.9	9.3903e+00	7.2528e+00	2.1375e+00
70.9	8.4205e+00	6.0589e+00	2.3615e+00
80.9	7.4597e+00	4.8059e+00	2.6538e+00

12C3He3He12C in Melamine			
Q-value 0.00, E = 18.00, Ex = 0.00			
deg	total energy	E - dE	dE
20.9	1.7145e+01	1.5861e+01	1.2836e+00
25.9	1.6837e+01	1.5535e+01	1.3028e+00
30.9	1.6474e+01	1.5148e+01	1.3263e+00
35.9	1.6061e+01	1.4706e+01	1.3544e+00
40.9	1.5602e+01	1.4215e+01	1.3871e+00
45.9	1.5105e+01	1.3680e+01	1.4247e+00
50.9	1.4573e+01	1.3106e+01	1.4676e+00
55.9	1.4012e+01	1.2495e+01	1.5163e+00
60.9	1.3497e+01	1.1932e+01	1.5644e+00
70.9	1.2384e+01	1.0702e+01	1.6817e+00
80.9	1.1276e+01	9.4549e+00	1.8212e+00

12C3He3He12C2nd in Melamine			
Q-value 0.00, E = 18.00, Ex = 7.65			
deg	total energy	E - dE	dE
20.9	9.2196e+00	7.0465e+00	2.1731e+00
25.9	8.9642e+00	6.7351e+00	2.2291e+00
30.9	8.6634e+00	6.3634e+00	2.3000e+00
35.9	8.3216e+00	5.9338e+00	2.3878e+00
40.9	7.9432e+00	5.4475e+00	2.4957e+00
45.9	7.5321e+00	4.9036e+00	2.6285e+00
50.9	7.0907e+00	4.2967e+00	2.7940e+00
55.9	6.6190e+00	3.6124e+00	3.0066e+00
60.9	6.2855e+00	3.0979e+00	3.1876e+00
70.9	5.4299e+00	1.5639e+00	3.8660e+00

14N3He3He14N in Melamine Q-value -0.00, E = 18.00, Ex = 0.00			
deg	total energy	E - dE	dE
20.9	1.7228e+01	1.5949e+01	1.2785e+00
25.9	1.6962e+01	1.5668e+01	1.2949e+00
30.9	1.6648e+01	1.5333e+01	1.3149e+00
35.9	1.6289e+01	1.4950e+01	1.3387e+00
40.9	1.5890e+01	1.4524e+01	1.3663e+00
45.9	1.5455e+01	1.4057e+01	1.3980e+00
50.9	1.4988e+01	1.3554e+01	1.4339e+00
55.9	1.4492e+01	1.3018e+01	1.4744e+00
60.9	1.4038e+01	1.2524e+01	1.5139e+00
70.9	1.3048e+01	1.1439e+01	1.6093e+00
80.9	1.2052e+01	1.0331e+01	1.7207e+00

14N3He3He14N2nd in Melamine Q-value -0.00, E = 18.00, Ex = 3.95			
deg	total energy	E - dE	dE
20.9	1.3239e+01	1.1649e+01	1.5898e+00
25.9	1.2997e+01	1.1382e+01	1.6147e+00
30.9	1.2710e+01	1.1064e+01	1.6452e+00
35.9	1.2382e+01	1.0700e+01	1.6818e+00
40.9	1.2018e+01	1.0293e+01	1.7248e+00
45.9	1.1622e+01	9.8469e+00	1.7748e+00
50.9	1.1195e+01	9.3629e+00	1.8324e+00
55.9	1.0741e+01	8.8421e+00	1.8990e+00
60.9	1.0359e+01	8.3988e+00	1.9598e+00
70.9	9.4801e+00	7.3607e+00	2.1194e+00
80.9	8.5979e+00	6.2817e+00	2.3162e+00

14N3He3He14N1st in Melamine Q-value -0.00, E = 18.00, Ex = 2.31			
deg	total energy	E - dE	dE
20.9	1.4907e+01	1.3467e+01	1.4403e+00
25.9	1.4655e+01	1.3194e+01	1.4609e+00
30.9	1.4356e+01	1.2870e+01	1.4860e+00
35.9	1.4015e+01	1.2499e+01	1.5160e+00
40.9	1.3636e+01	1.2085e+01	1.5510e+00
45.9	1.3223e+01	1.1632e+01	1.5914e+00
50.9	1.2780e+01	1.1142e+01	1.6376e+00
55.9	1.2308e+01	1.0618e+01	1.6904e+00
60.9	1.1894e+01	1.0154e+01	1.7401e+00
70.9	1.0968e+01	9.1027e+00	1.8651e+00
80.9	1.0037e+01	8.0223e+00	2.0148e+00

14N3He3He14N3rd in Melamine Q-value -0.00, E = 18.00, Ex = 4.92			
deg	total energy	E - dE	dE
20.9	1.2240e+01	1.0542e+01	1.6983e+00
25.9	1.2003e+01	1.0277e+01	1.7267e+00
30.9	1.1724e+01	9.9620e+00	1.7616e+00
35.9	1.1404e+01	9.6008e+00	1.8036e+00
40.9	1.1050e+01	9.1963e+00	1.8532e+00
45.9	1.0663e+01	8.7516e+00	1.9111e+00
50.9	1.0247e+01	8.2681e+00	1.9786e+00
55.9	9.8028e+00	7.7456e+00	2.0572e+00
60.9	9.4409e+00	7.3137e+00	2.1272e+00
70.9	8.5916e+00	6.2738e+00	2.3178e+00
80.9	7.7389e+00	5.1795e+00	2.5594e+00

14N3He3He14N4th in Melamine Q-value -0.00, E = 18.00, Ex = 5.11			
deg	total energy	E - dE	dE
20.9	1.2042e+01	1.0320e+01	1.7220e+00
25.9	1.1806e+01	1.0055e+01	1.7511e+00
30.9	1.1528e+01	9.7406e+00	1.7871e+00
35.9	1.1210e+01	9.3798e+00	1.8304e+00
40.9	1.0857e+01	8.9757e+00	1.8815e+00
45.9	1.0472e+01	8.5310e+00	1.9413e+00
50.9	1.0058e+01	8.0473e+00	2.0110e+00
55.9	9.6164e+00	7.5238e+00	2.0926e+00
60.9	9.2588e+00	7.0941e+00	2.1648e+00
70.9	8.4153e+00	6.0525e+00	2.3629e+00
80.9	7.5685e+00	4.9526e+00	2.6160e+00

12C3Healpha11C1st in Melamine Q-value 1.86, E = 18.00, Ex = 2.00			
deg	total energy	E - dE	dE
20.9	1.6749e+01	1.5116e+01	1.6331e+00
25.9	1.6384e+01	1.4721e+01	1.6628e+00
30.9	1.5953e+01	1.4254e+01	1.6995e+00
35.9	1.5464e+01	1.3721e+01	1.7435e+00
40.9	1.4924e+01	1.3129e+01	1.7952e+00
45.9	1.4340e+01	1.2484e+01	1.8554e+00
50.9	1.3717e+01	1.1792e+01	1.9251e+00
55.9	1.3062e+01	1.1057e+01	2.0054e+00
60.9	1.2491e+01	1.0408e+01	2.0823e+00
70.9	1.1222e+01	8.9397e+00	2.2818e+00
80.9	9.9730e+00	7.4422e+00	2.5308e+00

12C3Healpha11C in Melamine Q-value 1.86, E = 18.00, Ex = 0.00			
deg	total energy	E - dE	dE
20.9	1.8636e+01	1.7139e+01	1.4973e+00
25.9	1.8257e+01	1.6735e+01	1.5224e+00
30.9	1.7811e+01	1.6258e+01	1.5534e+00
35.9	1.7304e+01	1.5714e+01	1.5903e+00
40.9	1.6744e+01	1.5111e+01	1.6335e+00
45.9	1.6138e+01	1.4454e+01	1.6835e+00
50.9	1.5492e+01	1.3751e+01	1.7409e+00
55.9	1.4812e+01	1.3006e+01	1.8064e+00
60.9	1.4202e+01	1.2331e+01	1.8704e+00
70.9	1.2868e+01	1.0837e+01	2.0308e+00
80.9	1.1553e+01	9.3282e+00	2.2253e+00

12C3Healpha11C2nd in Melamine Q-value 1.86, E = 18.00, Ex = 4.32			
deg	total energy	E - dE	dE
20.9	1.4520e+01	1.2683e+01	1.8364e+00
25.9	1.4170e+01	1.2296e+01	1.8739e+00
30.9	1.3758e+01	1.1837e+01	1.9204e+00
35.9	1.3290e+01	1.1314e+01	1.9765e+00
40.9	1.2775e+01	1.0731e+01	2.0433e+00
45.9	1.2217e+01	1.0095e+01	2.1218e+00
50.9	1.1623e+01	9.4086e+00	2.2139e+00
55.9	1.0996e+01	8.6733e+00	2.3224e+00
60.9	1.0476e+01	8.0529e+00	2.4228e+00
70.9	9.2847e+00	6.5846e+00	2.7001e+00
80.9	8.1161e+00	5.0478e+00	3.0683e+00

14N3Healpha13N in Melamine Q-value 10.02, E = 18.00, Ex = 0.00				14N3Healpha13N2nd in Melamine Q-value 10.02, E = 18.00, Ex = 3.50			
deg	total energy	E - dE	dE	deg	total energy	E - dE	dE
20.9	2.6334e+01	2.5201e+01	1.1324e+00	20.9	2.3125e+01	2.1867e+01	1.2575e+00
25.9	2.5965e+01	2.4819e+01	1.1454e+00	25.9	2.2773e+01	2.1500e+01	1.2732e+00
30.9	2.5528e+01	2.4367e+01	1.1612e+00	30.9	2.2357e+01	2.1065e+01	1.2922e+00
35.9	2.5029e+01	2.3849e+01	1.1798e+00	35.9	2.1883e+01	2.0568e+01	1.3148e+00
40.9	2.4475e+01	2.3273e+01	1.2013e+00	40.9	2.1356e+01	2.0016e+01	1.3409e+00
45.9	2.3872e+01	2.2646e+01	1.2257e+00	45.9	2.0784e+01	1.9413e+01	1.3707e+00
50.9	2.3226e+01	2.1973e+01	1.2531e+00	50.9	2.0170e+01	1.8766e+01	1.4043e+00
55.9	2.2543e+01	2.1259e+01	1.2836e+00	55.9	1.9522e+01	1.8080e+01	1.4420e+00
60.9	2.1884e+01	2.0570e+01	1.3147e+00	60.9	1.8911e+01	1.7431e+01	1.4796e+00
70.9	2.0488e+01	1.9101e+01	1.3867e+00	70.9	1.7599e+01	1.6031e+01	1.5686e+00
80.9	1.9083e+01	1.7615e+01	1.4687e+00	80.9	1.6284e+01	1.4613e+01	1.6712e+00

14N3Healpha13N1st in Melamine Q-value 10.02, E = 18.00, Ex = 2.36			
deg	total energy	E - dE	dE
20.9	2.4172e+01	2.2958e+01	1.2134e+00
25.9	2.3814e+01	2.2586e+01	1.2281e+00
30.9	2.3391e+01	2.2145e+01	1.2460e+00
35.9	2.2909e+01	2.1642e+01	1.2671e+00
40.9	2.2373e+01	2.1082e+01	1.2915e+00
45.9	2.1790e+01	2.0471e+01	1.3193e+00
50.9	2.1166e+01	1.9816e+01	1.3506e+00
55.9	2.0506e+01	1.9121e+01	1.3857e+00
60.9	1.9879e+01	1.8458e+01	1.4209e+00
70.9	1.8540e+01	1.7036e+01	1.5036e+00
80.9	1.7195e+01	1.5596e+01	1.5985e+00