:תהליך ריצה

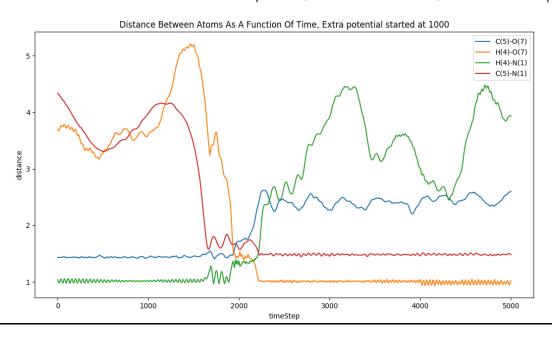
- 1. מינימיזציה
- עם תרמוסטט מ50 עד NVT .2

ריצה 1-אפוקסי ואמוניה (סה"כ 11 אטומים)

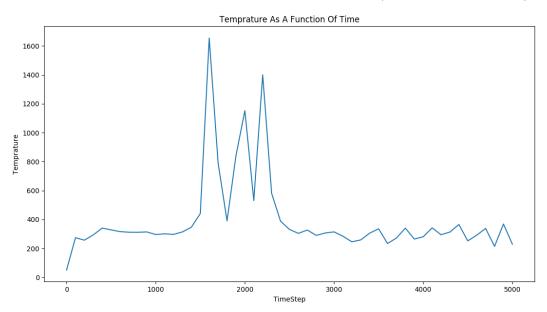
ריצה של 5,000 צעדי זמן, לאחר 1000 צעדי זמן חיפוש אחר רביעייה חשודה והפעלת הפוטנציאל למשך 3000 צעדי זמן עליה עם הפרמטרים :

TYPE1	TYPE2	F1	F2	R12
C	О	2.5	0.5	1.95
О	Н	12.5	0.75	1.1
С	N	15	0.75	1.5

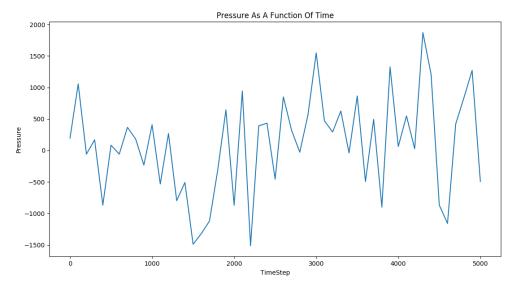
בצעד זמן 1000 נמצאה רביעייה אחת חשודה שהגיעה לריאקציה



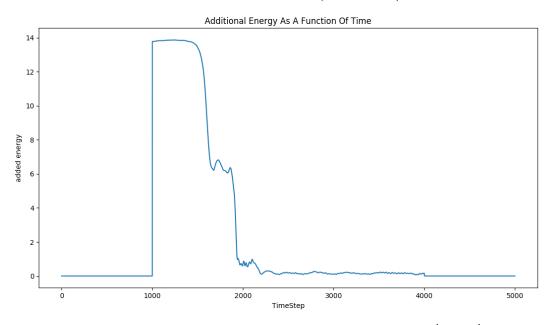
גרף טמפרטורה כתלות בזמן



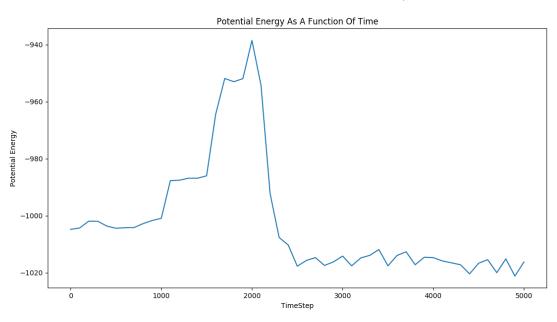
גרף של לחץ כתלות בזמן

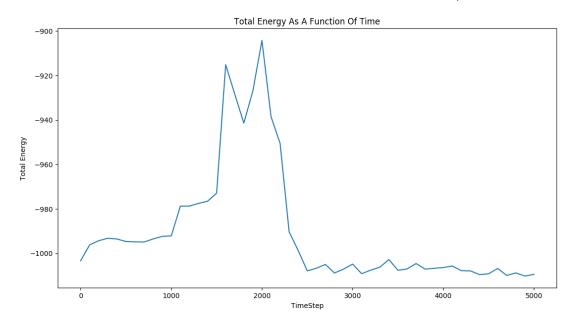


גרף של האנרגיה שהפוטנציאל הוסיף כתלות בזמן



גרף אנרגיה פוטנציאלית כתלות בזמן



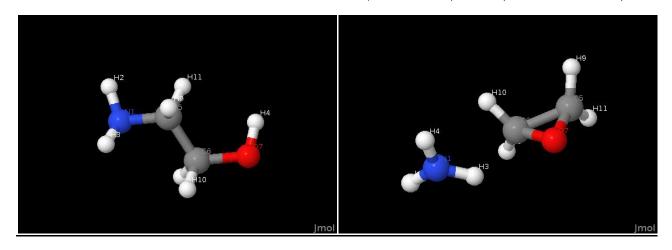


SPECIES.OUT קובץ

# Timestep	No_Moles	No_Specs	H3N	C2H4O		
100 2	$\frac{-}{2}$ 1	1				
# Timestep	No_Moles	No_Specs	H3N	C2H4O		
200 2	$\frac{1}{2}$ 1	1				
# Timestep	No_Moles	No_Specs	H3N	C2H4O		
300 2	2 1	1	11314	221140		
# Timestep	No_Moles	No_Specs	H3N	C2H4O		
400 2	_		пэн	221140		
		1	TION	201140		
# Timestep	No_Moles	No_Specs	H3N	C2H4O		
500 2	2 1	1	***	20110		
# Timestep	No_Moles	No_Specs	H3N	C2H4O		
600 2	2 1	1				
# Timestep	No_Moles	No_Specs	H3N	C2H4O		
700 2	2 1	1				
# Timestep	No_Moles	No_Specs	H3N	C2H4O		
800 2	2 1	1				
# Timestep	No_Moles	No_Specs	H3N	C2H4O		
900 2	2 1	1				
	No_Moles	No_Specs	H3N	C2H4O		
1000 2	2 1	1 1	11311			
# Timestep	No_Moles	No_Specs	H3N	C2H4O		
# Timestep 1100 2	2 1		11318	2211 1 U		
		1 N- C	HON	201140		
	No_Moles	No_Specs	H3N	C2H4O		
1200 2	2 1	1		~~~.		
	No_Moles	No_Specs	H3N	C2H4O		
1300 2	2 1	1				
	No_Moles	No_Specs	H3N	C2H4O		
1400 2	2 1	1				
# Timestep	No_Moles	No_Specs	H3N	C2H4O		
1500 2	2 1	1				
# Timestep	No_Moles	No_Specs	H3N	C2H4O		
1600 2	2 1	1				
	No_Moles	No_Specs	C2H7ON			
1700 1	1 1					
	No_Moles	No_Specs	C2H7ON			
1800 1	1 1	140_Spees	C211/O11			
	No_Moles	No Space	C2H7ON			
		No_Specs	C2H/ON			
1900 1	1 1	N - C	COLIZON			
	No_Moles	No_Specs	C2H7ON			
2000 1	1 1					
	No_Moles	No_Specs	C2H7ON			
2100 1	1 1					
# Timestep	No_Moles	No_Specs	C2H7ON			
2200 1	1 1					
# Timestep	No_Moles	No_Specs	C2H7ON			
2300 1	1 1	•				
# Timestep	No_Moles	No_Specs	C2H7ON			
2400 1	1 1					
2.00 1	1 1					

# Timestep	No_Moles	No_Specs	C2H7ON
2500 1	1 1	No_bpecs	C211/O11
# Timestep	No_Moles	No_Specs	C2H7ON
2600 1	1 1	_ 1	
# Timestep	No_Moles	No_Specs	C2H7ON
2700 1		_ 1	
# Timestep	No_Moles	No_Specs	C2H7ON
2800 1	1 1	- 1	
# Timestep	No_Moles	No_Specs	C2H7ON
2900 1	1 1	- 1	
# Timestep	No_Moles	No_Specs	C2H7ON
3000 1	1 1	•	
# Timestep	No_Moles	No_Specs	C2H7ON
3100 1	1 1	•	
# Timestep	No_Moles	No_Specs	C2H7ON
3200 1	1 1	•	
# Timestep	No_Moles	No_Specs	C2H7ON
3300 1	1 1	-	
# Timestep	No_Moles	No_Specs	C2H7ON
3400 1	1 1	•	
# Timestep	No_Moles	No_Specs	C2H7ON
3500 1	1 1	_	
# Timestep	No_Moles	No_Specs	C2H7ON
3600 1	1 1	•	
# Timestep	No_Moles	No_Specs	C2H7ON
3700 1	1 1	_	
# Timestep	No_Moles	No_Specs	C2H7ON
3800 1			
# Timestep	No_Moles	No_Specs	C2H7ON
3900 1	1 1		
# Timestep	No_Moles	No_Specs	C2H7ON
4000 1	1 1		
# Timestep	No_Moles	No_Specs	C2H7ON
4100 1	1 1		
# Timestep	No_Moles	No_Specs	C2H7ON
4200 1			
# Timestep	No_Moles	No_Specs	C2H7ON
4300 1			
# Timestep	No_Moles	No_Specs	C2H7ON
4400 1	1 1		
# Timestep	No_Moles	No_Specs	C2H7ON
4500 1	1 1		
# Timestep	No_Moles	No_Specs	C2H7ON
4600 1			
# Timestep	No_Moles	No_Specs	C2H7ON
4700 1	1 1		
# Timestep	No_Moles	No_Specs	C2H7ON
4800 1	1 1		
# Timestep	No_Moles	No_Specs	C2H7ON
4900 1			CANADON
# Timestep	No_Moles	No_Specs	C2H7ON
5000 1	1 1		

molviewerב הראשון האחרון DUMP ציור קבצי

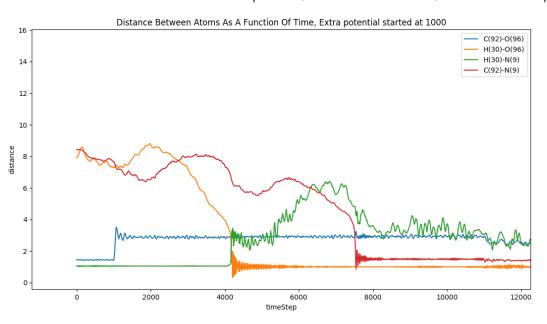


ריצה 2- המולקולות הגדולות (סה"כ 117 אטומים)

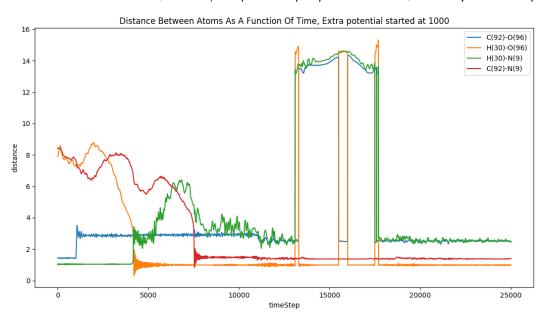
ריצה של 25,000 צעדי זמן, הפעלת הפוטנציאל בכל פעם למשך 10,000 צעדי זמן על רביעייה חשודה עם הפרמטרים:

TYPE1	TYPE2	F1	F2	R12
С	O	70	0.5	3.0
O	Н	140	1.0	1.0
С	N	140	1.0	1.5

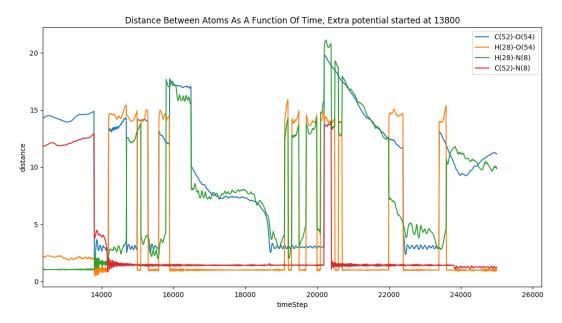
בצעד זמן 1000 נמצאה רביעייה אחת חשודה שהגיעה לריאקציה



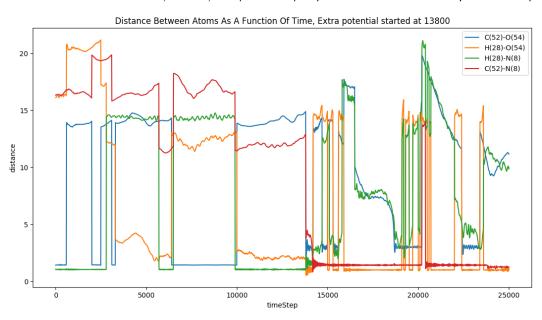
גרף המרחקים לכל אורך הריצה (הפוטנציאל נוסף בין צעדי זמן 1000-11,000



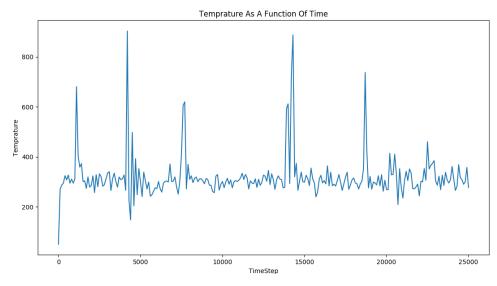
בצעד זמן 13,800 נמצאה רביעייה אחרת חשודה שגם הגיעה לריאקציה



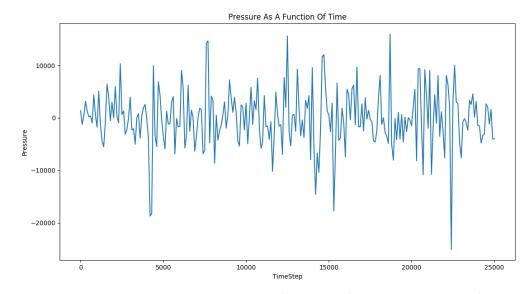
גרף המרחקים לכל אורך הריצה (הפוטנציאל נוסף בין צעדי זמן 13,800-23,800



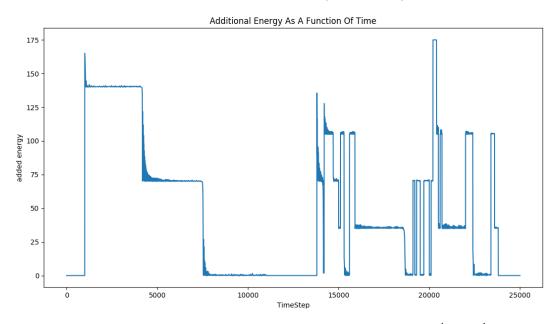
גרף טמפרטורה כתלות בזמן



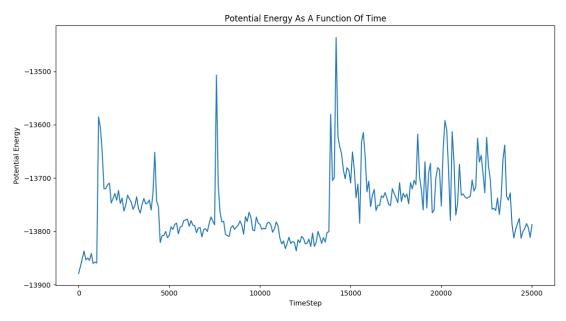
גרף של לחץ כתלות בזמן



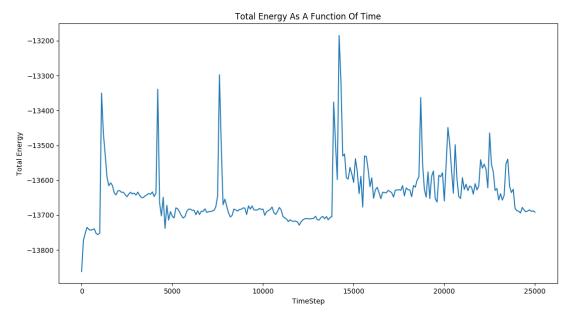
גרף של האנרגיה שהפוטנציאל הוסיף כתלות בזמן



גרף אנרגיה פוטנציאלית כתלות בזמן



גרף סך האנרגיה כתלות בזמן



SPECIES.OUT קובץ

Initial state					
Initial state # Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
100 3	2 1	2	CTITIONZ	C19112004	
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
200 3	2 1	2	CTITIONZ	019112004	
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
300 3	2 1	2	CTITIONZ	019112004	
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
400 3	2 1	2	0111110112	013112004	
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
500 3	2 1	2	0111110112	010112001	
# Timestep	No Moles	No_Specs	C11H18N2	C19H20O4	
600 3	2 1	2	· · · · · · · · · · · · · · · · · · ·	0.00.1200	
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
700 3	2 1	2	- '		
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
800 3	2 1	2			
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
900 3	2 1	2			
Start operate	the potenti	al on the #1	fourset		
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
1000 3	2 1	2			
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
1100 3	2 1	2			
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
1200 3	2 1	2	0	0.1011000.4	
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
1300 3	2.1	2 No. 0	0441140110	040110004	
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
1400 3	2 1	2 No Space	C44LI40NIO	C401120O4	
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
1500 3 # Timestep	2 1 No_Moles	2 No_Specs	C11H18N2	C19H20O4	
# Timestep	2 1	No_Specs	CITITIONZ	013112004	
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
1700 3	2 1	2	JIIIIIONZ	010112007	
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
1800 3	2 1	2	311110112	5.0 <u>20</u> 01	
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
1900 3	2 1	2	- · · · · · · · · · · · · · · · · · · ·		
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
2000 3	2 1	2	- '		
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
2100 3	2 1	2			
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
2200 3	_ 2 1	2			
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	
2300 3	2 1	2			
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	

2400 3 # Timestep	2 1 No_Moles	2 No_Specs	C11H18N2	C19H20O4	4
2500 3 # Timestep	2 1 No_Moles	2 No_Specs	C11H18N2	C19H20O4	4
2600 3	2 1	2 No_Specs	C11H18N2	C19H20O4	4
2700 3	2 1	2 No_Specs	C11H18N2	C19H20O4	
2800 3	2 1	2			
2900 3	2 1	No_Specs 2	C11H18N2	C19H20O4	
3000 3	No_Moles 2 1	No_Specs 2	C11H18N2	C19H20O4	4
# Timestep 3100 3	No_Moles 2 1	No_Specs 2	C11H18N2	C19H20O4	4
# Timestep 3200 3	No_Moles 2 1	No_Specs 2	C11H18N2	C19H20O4	4
		No_Specs 2	C11H18N2	C19H20O4	4
# Timestep	No_Moles	No_Specs	C11H18N2	C19H20O4	4
		2 No_Specs	C11H18N2	C19H20O4	4
		2 No_Specs	C11H18N2	C19H20O4	4
3600 3 # Timestep	2 1 No_Moles	2 No_Specs	C11H18N2	C19H20O4	4
3700 3 # Timestep	2 1 No_Moles	2 No_Specs	C11H18N2	C19H20O4	4
3800 3	2 1	2 No_Specs	C11H18N2	C19H20O4	4
3900 3	2 1	2 No_Specs	C11H18N2	C19H20O4	
4000 3	2 1	2 No_Specs	C11H18N2	C19H20O4	
4100 3	2 1	2			
4200 4	3 1	No_Specs	C11H17N2 2		C19H20O4
4300 3	3 1	No_Specs 1	C11H17N2 1	C19H21O4	
4400 3	3 1	No_Specs 1	C11H17N2 1	C19H21O4	4 C19H20O4
# Timestep 4500 3	No_Moles 3 1	No_Specs 1	C11H17N2 1	C19H21O4	4 C19H20O4
		No_Specs	C11H17N2 1	C19H21O	4 C19H20O4
		No_Specs	C11H17N2	C19H21O	4 C19H20O4
# Timestep		No_Specs	C11H17N2	C19H21O	4 C19H20O4
	No_Moles	1 No_Specs	1 C11H17N2	C19H21O	4 C19H20O4
		1 No_Specs	1 C11H17N2	C19H21O	4 C19H20O4
	3 1 No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	4 C19H20O4
5100 3 # Timestep	3 1 No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	4 C19H20O4
5200 3	3 1 No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	4 C19H20O4
5300 3	3 1 No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	
5400 3	3 1 No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	
5500 3	3 1	1	1		
5600 3	No_Moles 3 1	No_Specs 1	C11H17N2 1	C19H21O4	
# Timestep 5700 3	3 1	No_Specs 1	C11H17N2 1	C19H21O4	4 C19H20O4
# Timestep 5800 3	No_Moles 3 1	No_Specs 1	C11H17N2 1	C19H21O4	4 C19H20O4
	No_Moles 3 1	No_Specs 1	C11H17N2 1	C19H21O4	4 C19H20O4
		No_Specs	C11H17N2	C19H21O	4 C19H20O4
# Timestep	No_Moles	No_Specs	C11H17N2	C19H21O4	4 C19H20O4
•		1 No_Specs	1 C11H17N2	C19H21O4	4 C19H20O4
		1 No_Specs	1 C11H17N2	C19H21O4	4 C19H20O4
6300 3	3 1	1	1		

# Timestep No_Moles	No_Specs	C11H17N2	C19H21O4	C19H20O4		
6400 3 3 1 # Timestep No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	C19H20O4		
6500 3 3 1 # Timestep No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	C19H20O4		
6600 3 3 1 # Timestep No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	C19H20O4		
6700 3 3 1 # Timestep No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	C19H20O4		
6800 3 3 1 # Timestep No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	C19H20O4		
6900 3 3 1 # Timestep No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	C19H20O4		
7000 3 3 1 # Timestep No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	C19H20O4		
7100 3 3 1 # Timestep No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	C19H20O4		
7200 3 3 1 # Timestep No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	C19H20O4		
7300 3 3 1 # Timestep No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	C19H20O4		
7400 3 3 1 # Timestep No_Moles	1 No_Specs	1 C11H17N2	C19H21O4	C19H20O4		
7500 3 3 1	1	1				
The reaction happens # Timestep No_Moles	No_Specs	C11H17N	C19H20O4N	C19H20O4	Н	
7600 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
7700 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
7800 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
7900 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
8000 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
8100 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
8200 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
8300 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
8400 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
8500 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
8600 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
8700 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
8800 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
8900 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	н	
9000 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	н	
9100 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	н	
9200 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	н	
9300 4 4 1 # Timestep No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	н	
9400 4 4 1	1	1 1			н	
# Timestep No_Moles 9500 4 4 1 # Timestep No_Moles	No_Specs	C11H16N 1 1	C19H21O4N	C19H20O4	Н	
# Timestep No_Moles 9600 4 4 1 # Timestep No_Moles	No_Specs	C11H16N 1 1	C19H21O4N	C19H20O4		
# Timestep No_Moles 9700 4 4 1	No_Specs	C11H16N 1 1	C19H21O4N	C19H20O4	Н	
# Timestep No_Moles 9800 4 4 1	No_Specs	C11H16N 1 1	C19H21O4N	C19H20O4	Н	
# Timestep No_Moles 9900 4 4 1	No_Specs	C11H16N 1 1	C19H21O4N	C19H20O4	Н	
# Timestep No_Moles 10000 4 4	No_Specs 1	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	
# Timestep No_Moles 10100 4 4	No_Specs 1	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	
# Timestep No_Moles	No_Specs	C11H16N	C19H21O4N	C19H20O4	Н	

10200	4 4	1	1 1	1			
# Timestep	No_Moles	No_Specs	C11H16N	C19H21O4N	C19H20O4	Н	
# Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	
10400 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	ļ
10500	4 4	1	1 1	1			ļ
# Timestep 10600	No_Moles 4 4	No_Specs 1	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	ļ
# Timestep 10700	No_Moles 4 4	No_Specs 1	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	ļ
# Timestep 10800	No_Moles 4 4	No_Specs 1	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	ļ
# Timestep	No_Moles	No_Specs	C11H16N	C19H21O4N	C19H20O4	Н	
10900	4 4	1	1 1	1			
end of extra # Timestep	a potential on No_Moles	the #1 fours No_Specs	et C11H16N	C19H21O4N	C19H20O4	н	
11000	4 4	1	1 1	1			
# Timestep 11100	No_Moles 4 4	No_Specs 1	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	ļ
# Timestep 11200	No_Moles 4 4	No_Specs 1	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	ļ
# Timestep	No_Moles	No_Specs	C11H16N	C19H21O4N 1	C19H20O4	Н	
11300 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
11400 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	
11500 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	
11600 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	
11700	4 4	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	н	
# Timestep	No_Moles 4 4	_ · 1	1 1	1			
# Timestep 11900	No_Moles 4 4	No_Specs 1	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	
# Timestep 12000	No_Moles 4 4	No_Specs 1	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	
# Timestep 12100	No_Moles 4 4	No_Specs 1	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	
# Timestep 12200	No_Moles	No_Specs	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	
# Timestep	No_Moles	No_Specs	C11H16N	C19H21O4N	C19H20O4	Н	
12300 # Timestep	4 4 No_Moles	No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	
12400 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	
12500 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	
12600 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	н	
12700 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	
12800	4 4 No Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N		Н	
# Timestep 12900	4 4	1	1 1	1	C19H20O4		
# Timestep 13000	No_Moles 4 4	No_Specs	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	
# Timestep 13100	No_Moles 4 4	No_Specs 1	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	
# Timestep 13200	No_Moles	No_Specs	C11H16N 1 1	C19H21O4N 1	C19H20O4	Н	
# Timestep	No_Moles	No_Specs	C11H16N	C19H21O4N 1	C19H20O4	Н	
13300 # Timestep	No_Moles	No_Specs	1 1 C11H16N	C19H21O4N	C19H20O4	Н	
13400 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	
13500 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	
13600 # Timestep	4 4 No_Moles	1 No_Specs	1 1 C11H16N	1 C19H21O4N	C19H20O4	Н	
13700	4 4	1	1 1	1			
	te the potentia			04011040451	040110004		
	No_Moles 4 4	No_Specs	C11H16N 1 1	C19H21O4N 1	C19H20O4	H	
# Timestep 13900	No_Moles 4 4	No_Specs 1	C11H16ON 1 1	C19H21O4N 1	C19H20O3	Н	

# Timestep No_Moles 14000 4 4	No_Specs 1	C11H15N 1 1	C19H21O4N 1	C19H21O4	Н
Reaction happens??					
# Timestep No_Moles	No_Specs	C30H36O4N 1 1	C19H21O4N	Н	
# Timestep No_Moles	No_Specs	C11H14 C19H22		2104N H	
14200 4 4 # Timestep No_Moles	1 No_Specs	1 1 C30H36O4N	1 C19H21O4N	Н	
# Timestep No_Moles	1 No_Specs	1 1 C30H36O4N	C19H21O4N	Н	
14400 3 3 # Timestep No_Moles	1 No_Specs	1 1 C30H36O4N	C19H21O4N	Н	
14500 3 3 # Timestep No_Moles	1 No_Specs	1 1 C11H15 C19H21	O4N H		
14600 4 3 # Timestep No_Moles	1 No_Specs	2 1 C11H15 C19H21	O4N H		
14700 4 3 # Timestep No_Moles	1 No_Specs	2 1 C11H15 C19H21			
14800 4 3 # Timestep No_Moles	1 No_Specs	2 1 C11H15 C19H21			
14900 4 3 # Timestep No_Moles	1 No_Specs	2 1 C11H15 C19H21			
15000 4 3	1 1	2 1	O4N 11		
The distances between	the pairs as v	wanted			
# Timestep No_Moles 15100 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep No_Moles 15200 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep No_Moles 15300 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep No_Moles 15400 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep No_Moles	No_Specs	C11H15 CH2N	C19H21O4N	C18H19O4	Н
15500 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
15600 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
15700 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
15800 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
15900 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
16000 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
16100 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
16200 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
16300 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
16400 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
16500 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N		Н
16600 5 5	1	1 1	1 1	C18H19O4	
# Timestep No_Moles 16700 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep No_Moles 16800 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	H
# Timestep No_Moles 16900 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep No_Moles 17000 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep No_Moles 17100 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep No_Moles 17200 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep No_Moles 17300 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N	C18H19O4	Н
# Timestep No_Moles	1 No_Specs	C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
17400 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
17500 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
17600 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
				·	

17700 # Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
17800 # Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
17900 # Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
18000	5 5	1	1 1	1 1		
# Timestep 18100	No_Moles 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 18200	No_Moles 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 18300	No_Moles 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 18400	No_Moles 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep	No_Moles	No_Specs	C11H15 CH2N	C19H21O4N	C18H19O4	Н
18500 # Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
# Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 C38H41	1 1 O8N2 H		
18700 # Timestep	4 3 No_Moles	1 No_Specs	1 2 C11H15 CH2N	C19H21O4N	C18H19O4	Н
18800 # Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
18900	5 5	1	1 1	1 1		
# Timestep 19000	5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 19100	No_Moles 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 19200	No_Moles 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 19300	No_Moles 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 19400	No_Moles 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep	No_Moles	No_Specs	C11H15 C19H21	•		
19500 # Timestep	4 3 No_Moles	1 No_Specs	2 1 C11H15 CH2N	C19H21O4N	C18H19O4	Н
# Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
19700 # Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	н
19800 # Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
19900 # Timestep	5 5 No Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	н
20000	5 5	1	1 1	1 1		
# Timestep 20100	5 5	1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	н
# Timestep 20200	No_Moles 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 20300	No_Moles 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 20400	No_Moles 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 20500		No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep	No_Moles	No_Specs	C11H15 CH2N	C19H21O4N	C18H19O4	Н
20600 # Timestep	_	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
20700 # Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
20800 # Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	н
20900 # Timestep	5 5 No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4	Н
21000	5 5	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N		Н
# Timestep 21100	No_Moles 5 5	1	1 1	1 1	C18H19O4	
# Timestep 21200	No_Moles 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 21300	No_Moles 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 21400	No_Moles 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep 21500	No_Moles 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4	Н
# Timestep	No_Moles	No_Specs	C11H15 CH2N	C19H21O4N	C18H19O4	Н
21600	5 5	1	1 1	1 1		

# Timestep No_Moles	No_Specs	C11H15 CH2N	C19H21O4N	C18H19O4 H	
21700 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CHN	1 1 C19H21O4N	C18H19O4 H	
21800 6 5	1	1 1	1 2		
# Timestep No_Moles 21900 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1		
# Timestep No_Moles 22000 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4 H	
# Timestep No_Moles 22100 5 5	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4 H	
# Timestep No_Moles	No_Specs	C11H15 CH2N	C19H21O4N	C18H19O4 H	
22200 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4 H	
22300 5 5 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4 H	
22400 5 5 # Timestep No Moles	1	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4 H	
22500 5 5	No_Specs	1 1	1 1		
# Timestep No_Moles 22600 5 5	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C18H19O4 H	
# Timestep No_Moles 22700 6 6	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	HO C18H18O3 1	Н
# Timestep No_Moles	No_Specs	C11H15 CH2N	C19H21O4N	C18H19O4 H	
22800 5 5 # Timestep No_Moles	No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	C18H19O4 H	
22900 5 5	1	1 1	1 1		
The distances between t # Timestep No_Moles	the pairs as v No_Specs	vanted C11H15 CH2N	C19H21O4N	C2H4O C16H15O3	
23000 6 6	1	1 1	1 1	1	
# Timestep No_Moles 23100 6 6	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C2H4O C16H15O3 1	Н
# Timestep No_Moles 23200 6 6	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C2H4O C16H15O3 1	Н
# Timestep No_Moles	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C2H4O C16H15O3	Н
# Timestep No_Moles	No_Specs	C11H15 CH2N	C19H21O4N	C2H4O C16H15O3	Н
23400 6 6 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	1 C2H4O C16H15O3	Н
23500 6 6 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	1 C2H4O C16H15O3	Н
23600 6 6 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	1 C2H4O C16H15O3	Н
23700 6 6	1 1	1 1	1 1	1	11
End of the potential on t	he #2 fourse	ts			
# Timestep No_Moles 23800 6 6	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C2H4O C16H15O3 1	
# Timestep No_Moles	No_Specs	C11H15 CH2N	C19H21O4N	C2H4O C16H15O3	Н
23900 6 6 # Timestep No_Moles	No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	1 C2H4O C16H15O3	Н
24000 6 6 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	1 C2H4O C16H15O3	Н
24100 6 6 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	1 C2H4O C16H15O3	н
24200 6 6	1	1 1	1 1	1	
# Timestep No_Moles 24300 6 6	No_Specs	C11H15 CH2N 1 1	C19H21O4N 1 1	C2H4O C16H15O3 1	Н
# Timestep No_Moles 24400 6 6	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C2H4O C16H15O3 1	Н
# Timestep No_Moles 24500 6 6	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C2H4O C16H15O3 1	Н
# Timestep No_Moles	No_Specs	C11H15 CH2N	C19H21O4N	C2H4O C16H15O3	Н
24600 6 6 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H20O4N	1 C2H4O C16H15O3	H2
24700 6 6 # Timestep No_Moles	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	1 C2H4O C16H15O3	Н
24800 6 6	1 No_Specs	1 1 C11H15 CH2N	1 1 C19H21O4N	1 C2H4O C16H15O3	н
# Timestep No_Moles 24900 6 6	No_Specs	1 1	1 1	1	11
Final state					
# Timestep No_Moles 25000 6 6	No_Specs 1	C11H15 CH2N 1 1	C19H21O4N 1 1	C2H4O C16H15O3 1	Н
		<u> </u>	<u> </u>		