

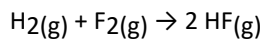
Lista de Exercícios – Termoquímica IV

TABELA COM VALORES DE ENERGIA DE LIGAÇÃO

Ligação	Energia (kJ/mol)	Ligação	Energia (kJ/mol)	Ligação	Energia (kJ/mol)
H – H	435	C – C	347	N – N	163
H – C	414	C = C	611	N = N	418
H – N	389	C ≡ C	837	N ≡ N	946
H – O	464	C – N	305	N – O	230
H – S	368	C = N	610	N = O	590
H – F	569	C ≡ N	891	O – O	142
H – Cl	431	C – O	360	O = O	498
H – Br	368	C = O	728	F – F	159
H – I	297	C – Cl	326	Cl – Cl	243

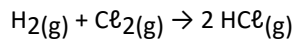
Utilize a tabela acima de energia de ligação para responder as seguintes questões:

1. (AQ) Calcule o calor da reação:



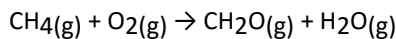
- a) – 1138 kJ b) – 544 kJ
c) – 25 kJ d) + 25 kJ
e) + 544 kJ

2. (AQ) Calcule o calor da reação:



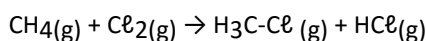
- a) – 862 kJ b) – 247 kJ
c) – 184 kJ d) + 184 kJ
e) + 247 kJ

3. (AQ) Calcule o calor da reação:



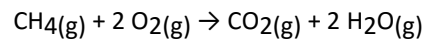
- a) – 330 kJ b) + 330 kJ
c) – 686 kJ d) + 686 kJ
e) – 251 kJ

4. (AQ) Calcule o calor da reação:



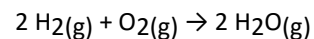
- a) – 343 kJ b) + 200 kJ
c) – 200 kJ d) + 100 kJ
e) – 100 kJ

5. (AQ) Calcule o calor da reação:



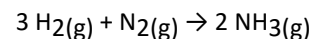
- a) + 576 kJ b) – 576 kJ
c) – 1288 kJ d) + 1288 kJ
e) – 3470 kJ

6. (AQ) Calcule o calor da reação:



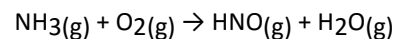
- a) + 440 kJ b) – 440 kJ
c) + 488 kJ d) – 488 kJ
e) – 844 kJ

7. (AQ) Calcule o calor da reação:



- a) – 180 kJ b) + 214 kJ
c) – 214 kJ d) + 83 kJ
e) – 83 kJ

8. (AQ) Calcule o calor da reação:



- a) + 242 kJ b) – 242 kJ
c) – 598 kJ d) + 598 kJ
e) – 238 kJ