| Broku                       | 1 DH (KJ/mo1)                                  | Formed DH (KJ/mol)                                   |
|-----------------------------|--|--|
| 15 0-<br>5 C-<br>3 C=<br>C- | 249<br>H 413<br>C 348<br>C 614<br>O 799<br>358 | 14 C=0 799<br>6 0-H 463<br>DH = AHbrohen - DH formed |
| O-H<br>G=                   |  | = 10654 kg - 13964 kg<br>= -3810 kg                  |

$$= -3226.7 \frac{kT}{mol} - 0.008314 \frac{kT}{molk} \cdot 298.15 k \cdot \frac{1}{2}$$

$$= -3225.5 \frac{kT}{mol}$$

$$\Delta U = 7 \text{ sys}, V = \text{mass of sample } (g) \cdot \text{molar mass of sample } (\frac{\text{mol}}{y})$$

$$\frac{\Delta U}{\text{mol}} \text{ sample } (\frac{kT}{\text{mol}})$$