

HOW CAN WE DISTINGUISH BETWEEN ALKANES AND ALKENES?

Using bromine water

PROCEDURE

1. Using the Propette put 5 drops of cyclohexane into Well A1.
2. Put 5 drops of cyclohexene into Well A3.
3. Add 5 drops of bromine water to both Wells A1 and A3.
4. Stir both Wells using the thin end of a microspatula.
5. Write down your observations in the table below:

RESULTS

Well A1 (containing an alk_____)	Well A3 (containing an alk_____)

CONCLUSIONS

1. How can alkenes be distinguished from alkanes using bromine water?

2. In another experiment a student burned the alkane and alkene separately and obtained the following results:

Observations with alkane	Observations with alkene
Burned quickly with _____	Burned quickly with _____

Comparing the above observations with your results with bromine water, which test would you use to distinguish between alkenes and alkanes

Explain why _____
