

IB Chemistry HL Notes
Core and Further Organic Chemistry
Mechanisms & Reactions
Isaac D. Lim

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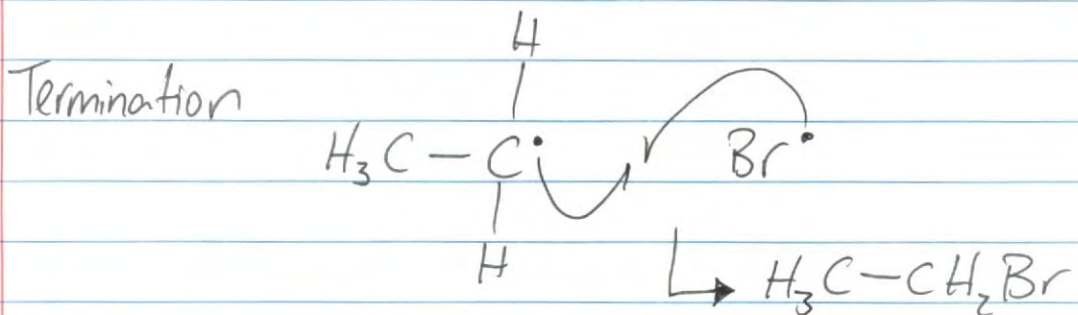
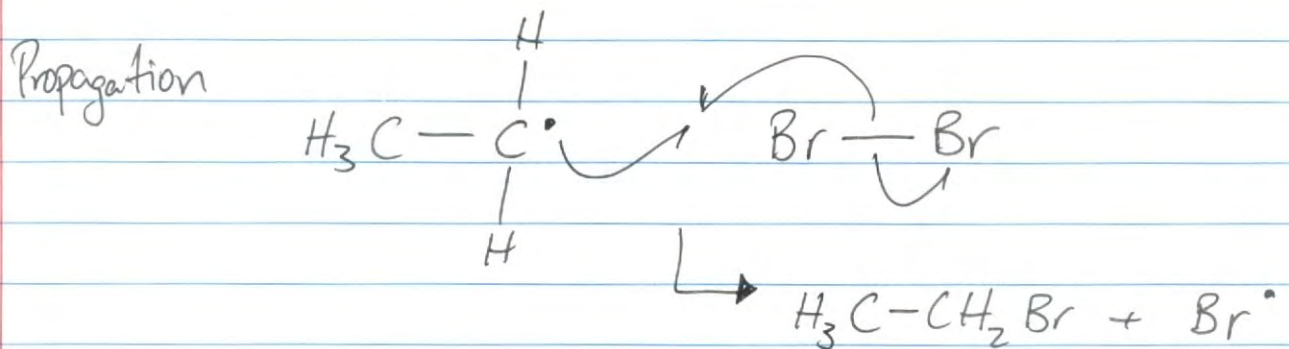
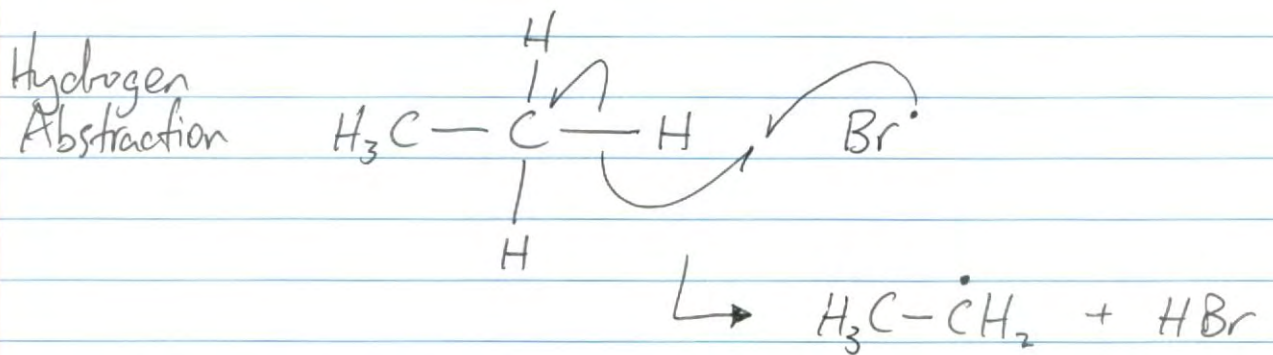
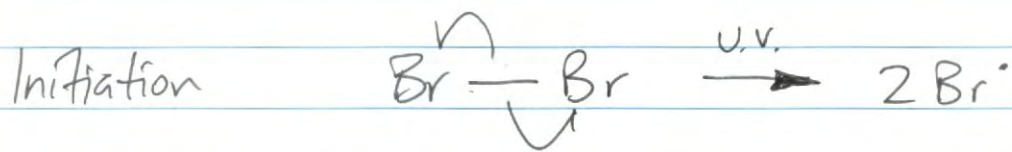
For any queries, please contact the author at isaacimdc@gmail.com.

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Alkane Substitution

Free radical substitution:



Bromoethane.

~~Alkene~~ Alkene reactions conditions

Hydrogenation

Raney nickel catalyst (alloy of nickel + aluminium)
R.T.P.

or

Platinum / Palladium catalyst (expensive)
R.T.P.

or

Nickel metal (cheap)
200°C - 300°C temperature
Few atm. pressure

Hydration

~ 300°C temperature

Sulphuric acid catalyst / Phosphoric acid

Need to hydrolyse to obtain ROH product.

70 atm. pressure

Polymerisation

100°C ~ 300°C temperature

1000 atm. pressure

Peroxide (O-O) initiator