

NAME : MAKINDE OMENERLONA RHOA

MATRIC NO: 19/MHS02/074

DEPARTMENT: NURSING

1) Molecules

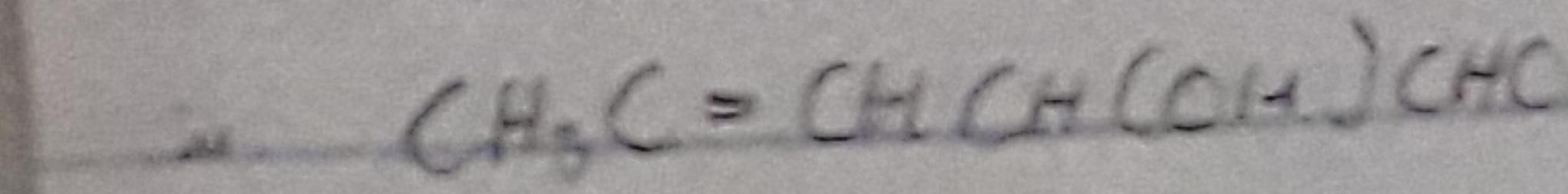
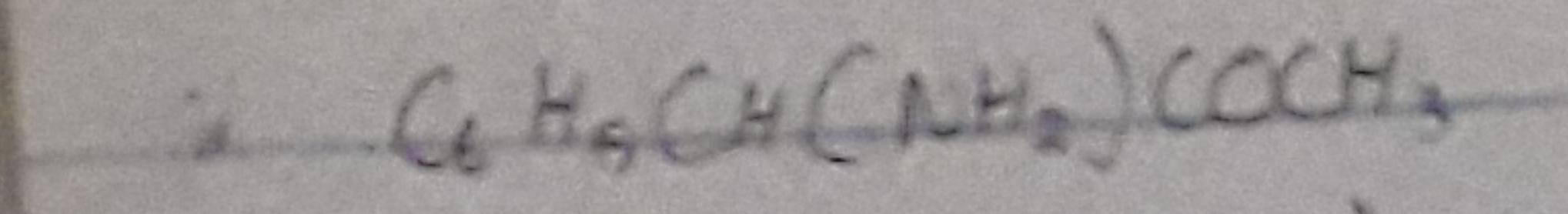


Functional groups

Aldehyde (-CHO) and Hydroxyl (-OH)

Carbonyl (-CO) and Amine (-NH₂) group

Hydroxyl (-OH) and Aldehyde (-CHO) group



2) $[\alpha] = \frac{\alpha}{c l}$

Conc. in g/cm³ = 0.556 = 0.0856 g/cm³

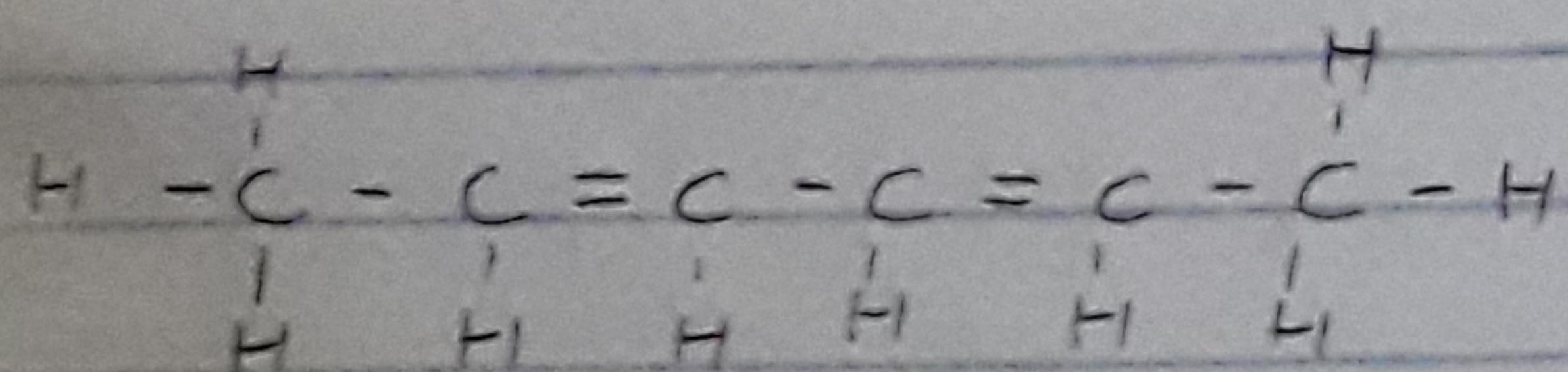
Specific rotation = $\frac{\text{Observed rotation}}{10}$
 $(\text{Conc. in g/cm}^3) \times (\text{path length of sample cell in dm})$

$$[\alpha]_D = \frac{\alpha}{c l} = \frac{+1.0^\circ}{0.0856 \times 1.0} = +11.682^\circ \text{ g}^{-1} \text{ cm}^3 \text{ dm}^{-1}$$

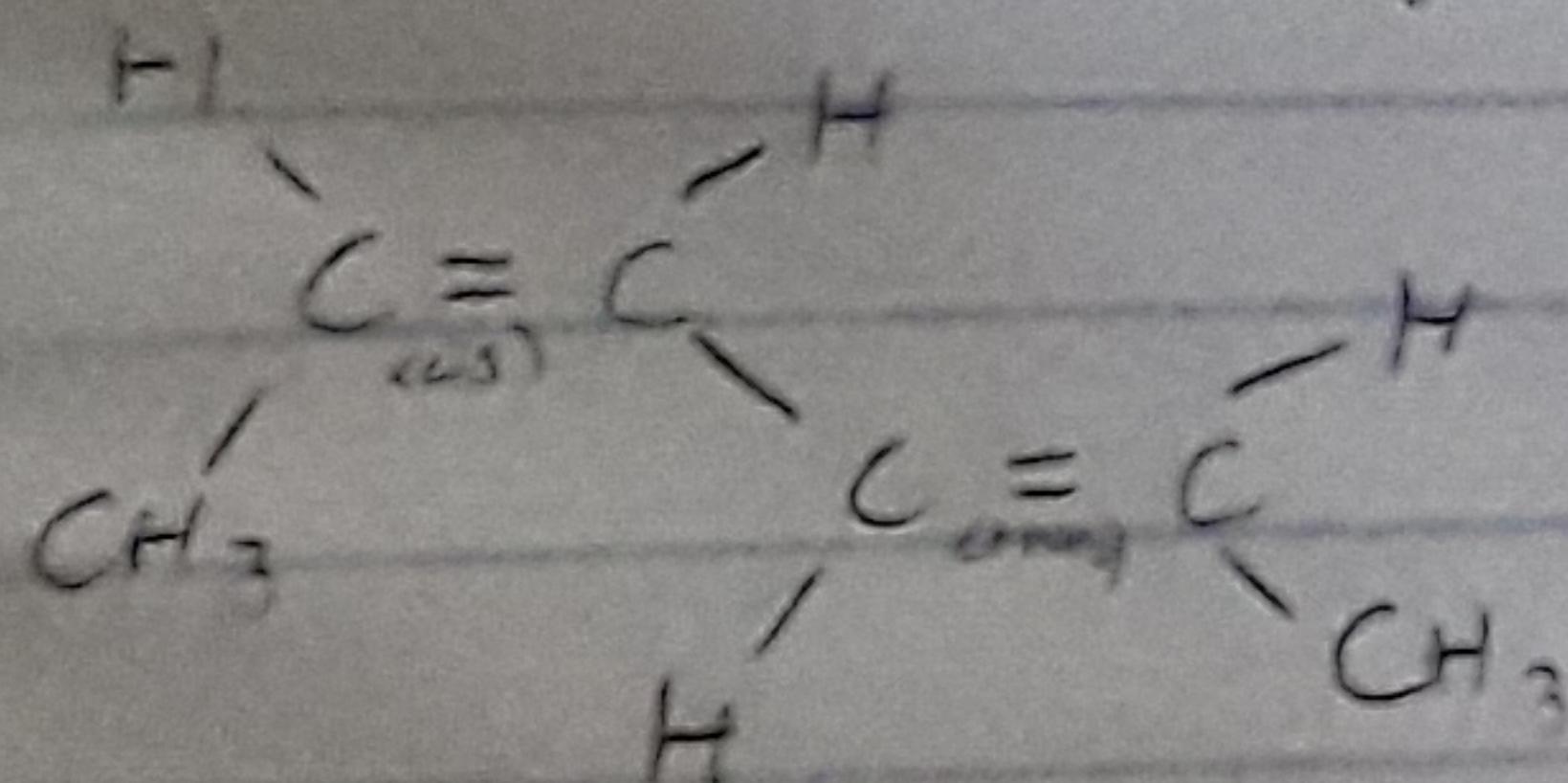
$$= +11.682^\circ$$

∴ Specific rotation of (2R,3R)-tartaric acid is +11.682°

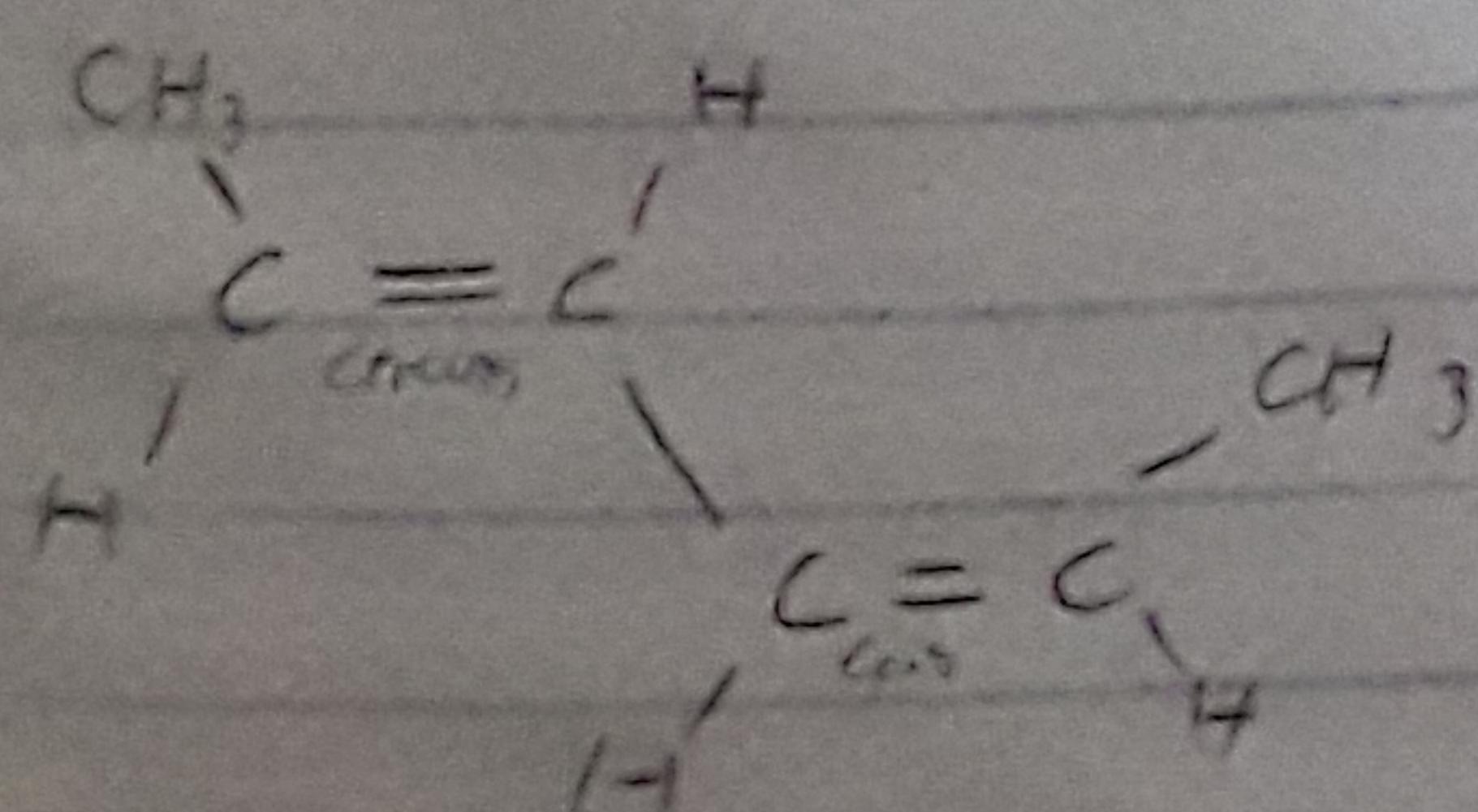
3) :- Hexa - 2,4-diene [CH₃CH=CHCH=CHCH₃]



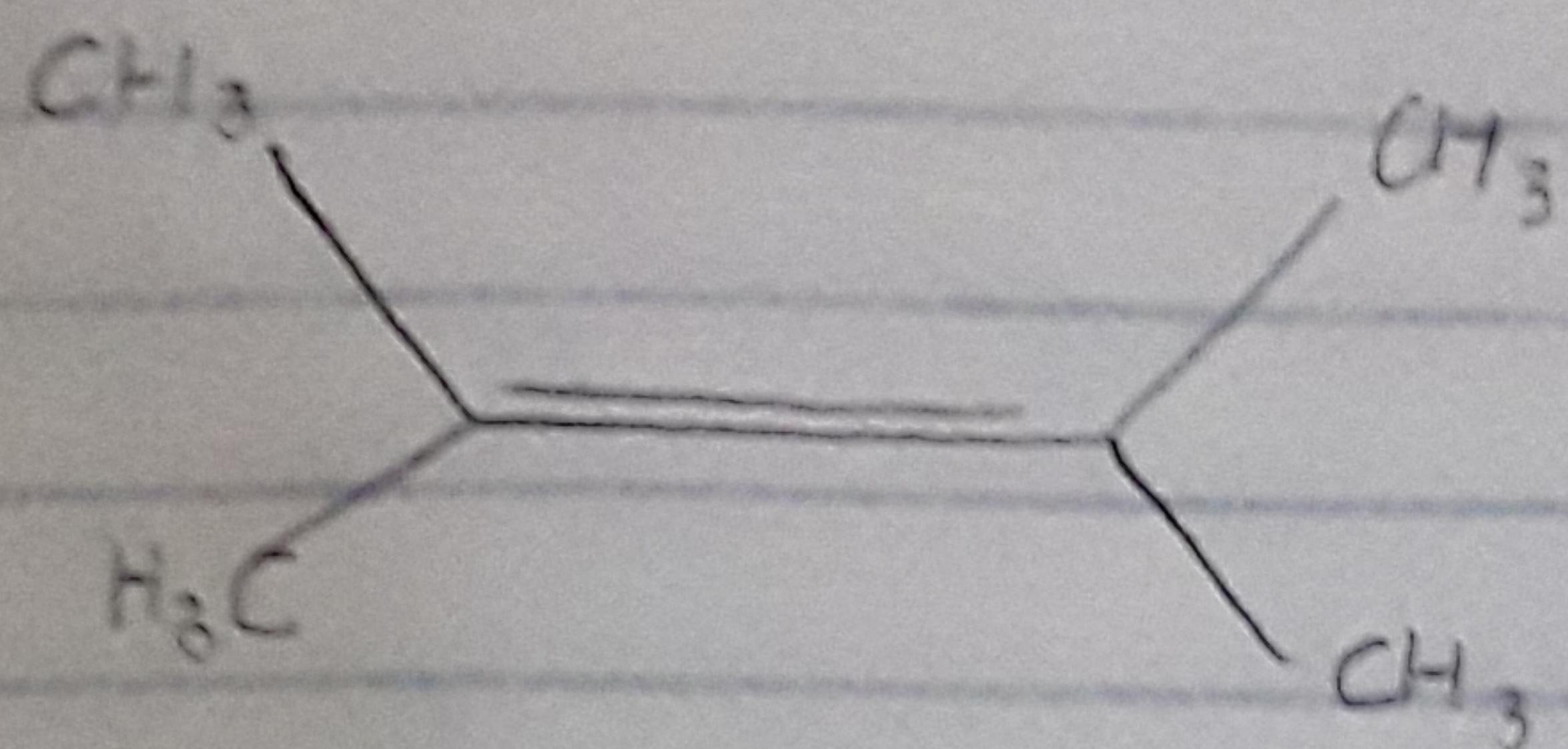
Cis - 1, trans - 4 - dimethyl but - 2 - ene



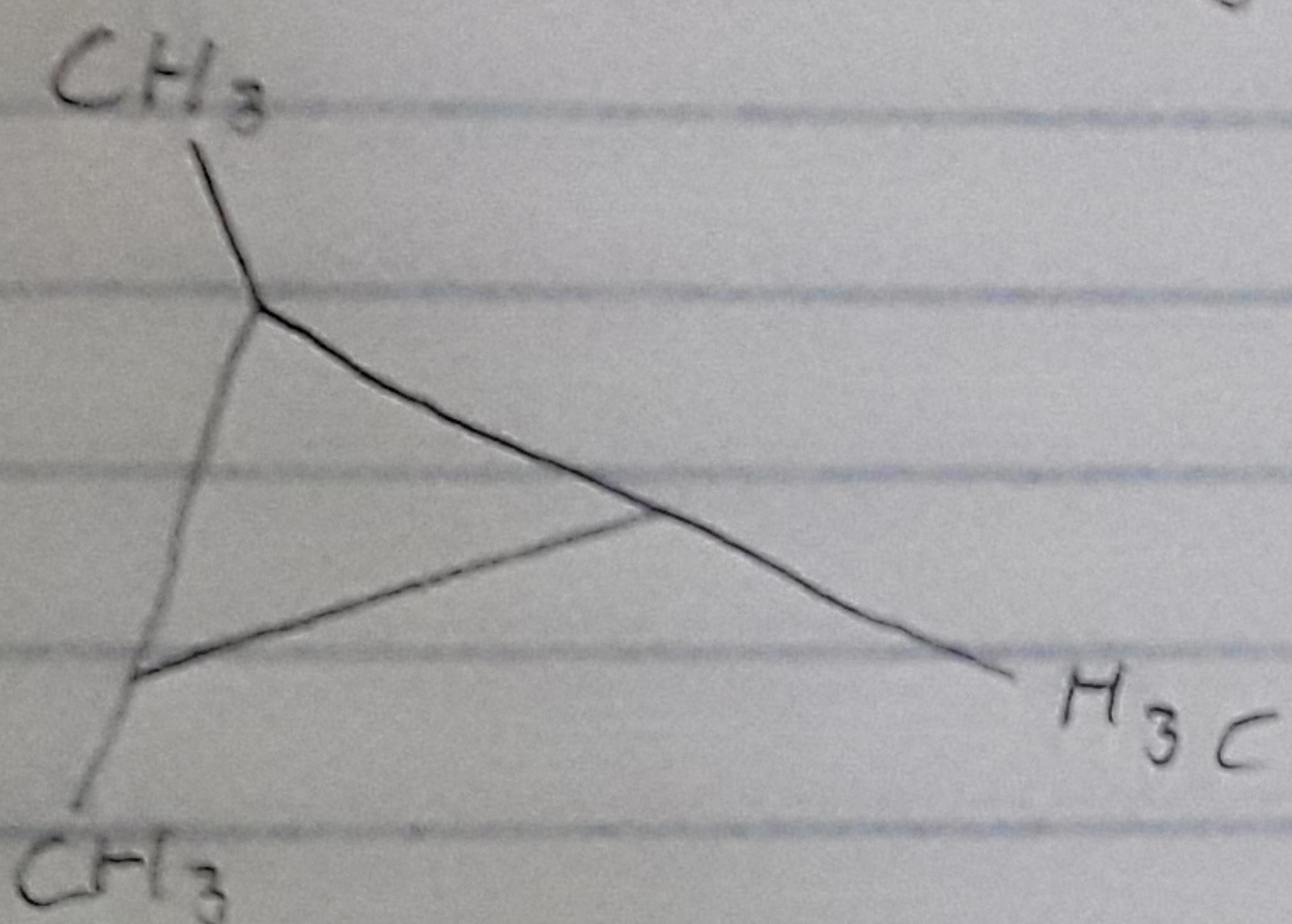
Trans - 1, cis - 4 - dimethyl but - 2 - ene



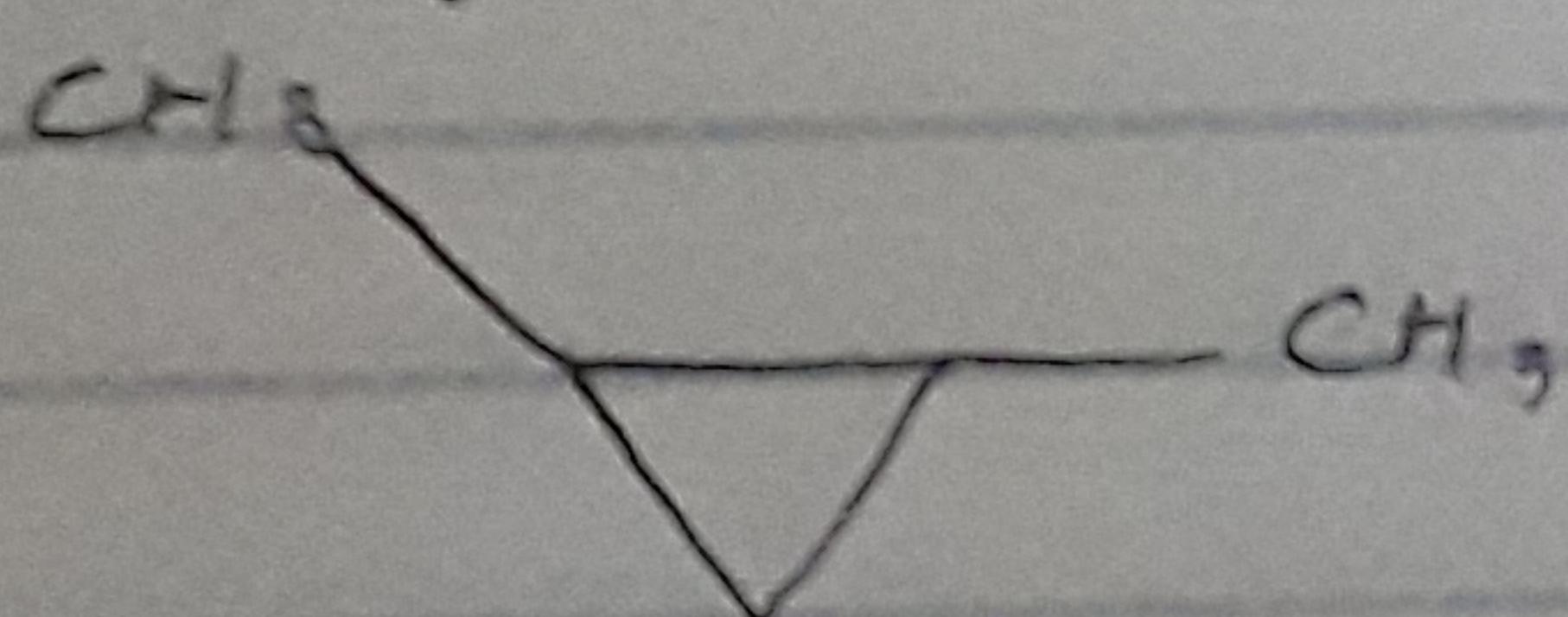
b. 2,3-Dimethyl but-2-ene



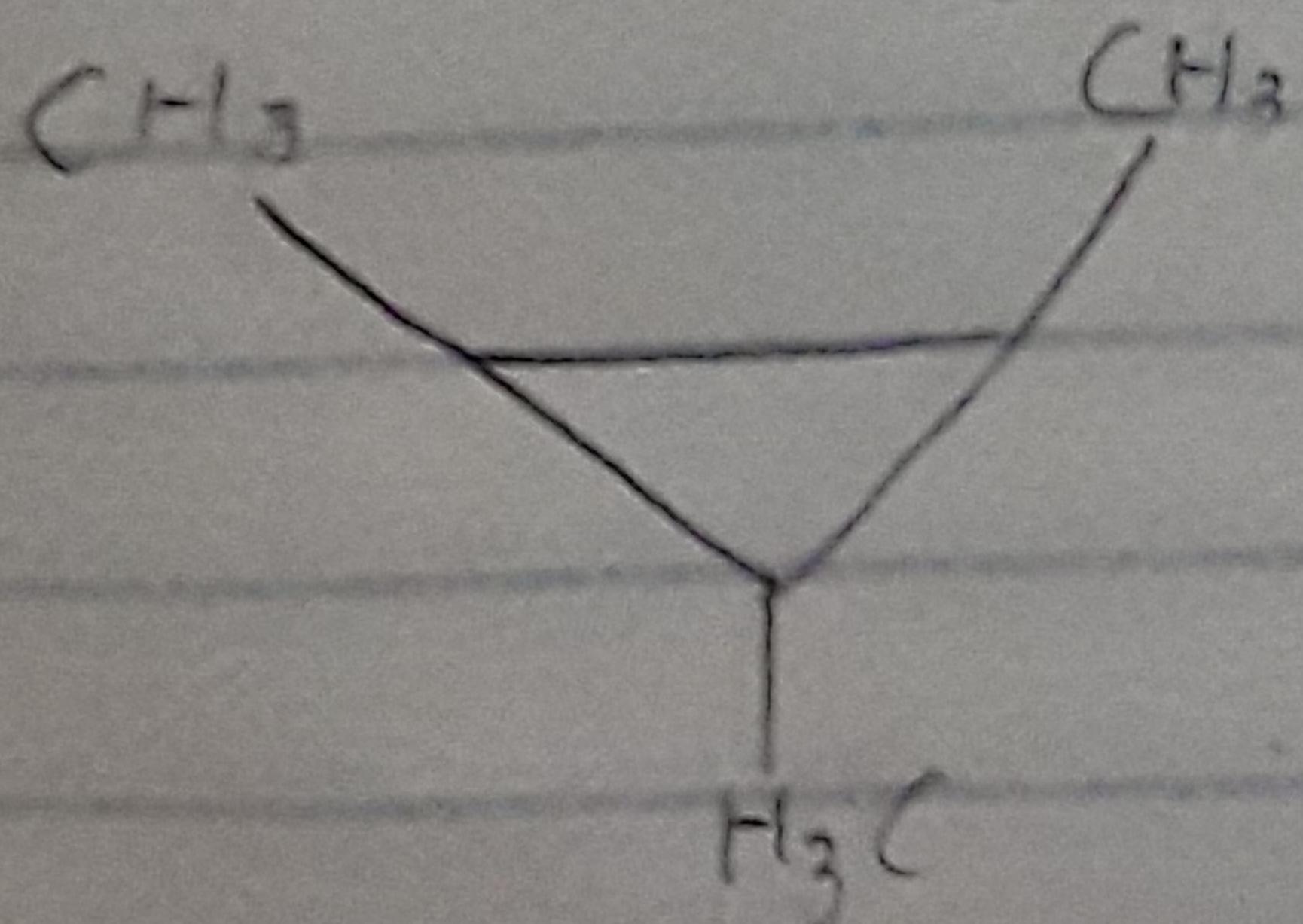
c. 1-Cis-2-trans-3-trimethyl cyclopropane



m. 1-methyl-trans-2-ethyl cyclopropane



n. Cis-1,2,3-trimethyl cyclopropane



o. trans-2-hexene

