

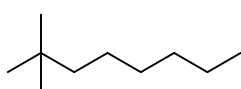
Capitolo Uno

Esercizi supplementari per il testo H. Hart, L. Craine, D. Hart
CHIMICA ORGANICA 5^a edizione

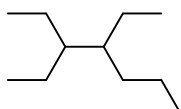
a cura di **Antonio Coviello**

2.1 Scrivete una formula di struttura condensata o poligonale per ciascuno dei seguenti composti:

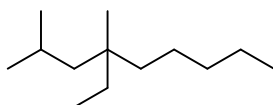
a. 2,2-dimetilottano



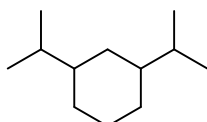
b. 3,4-dietileptano



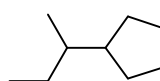
c. 4-etil-2,4-dimetilnonano



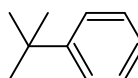
d. 1,3-diisopropilcicloesano



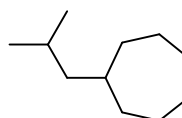
e. sec-butilcicloesano



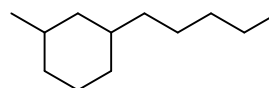
f. t-butilbenzene



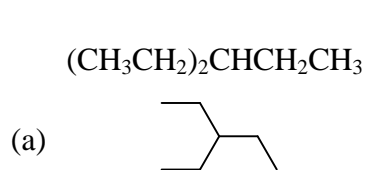
g. isobutilcicloesano



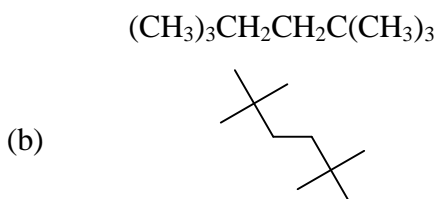
h. 1-metil-3-pentilcicloesano



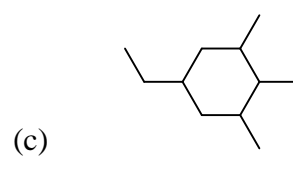
2.2 Scrivete il nome IUPAC dei seguenti composti:



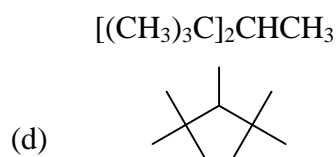
3-etil-pentano



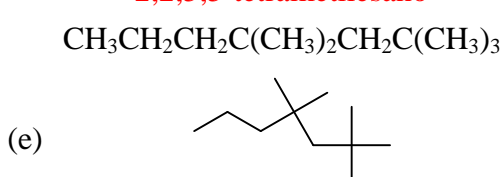
2,2,5,5-tetrametilesano



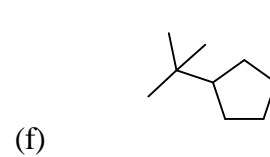
1-etil-3,4,5-trimetilcicloesano



2,2,3,4,4-pentametilpentano



2,2,4,4-tetrametileptano



terbutilcicloesano

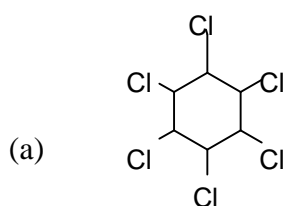
2.3 Ognuno dei nomi seguenti è scorretto. Date i nomi appropriati:

- a. 6-metilottano 3-metilottano
 b. terbutilmetano 2,2-dimetilpropano
 c. 3-metil-3-isopropil-4-metildecano 2,3,4,5-tetrametildecano

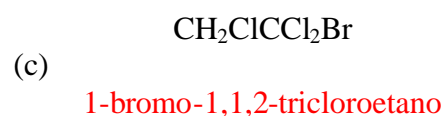
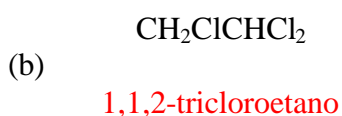
2.4 Scrivete le strutture di tutti i mono-cloroderivati (derivati con un solo atomo di cloro) isomeri di ciascuno dei seguenti alcani.:

- a. n-pentano
 b. ciclopentano
 c. 2,2-dimetilbutano
 d. 2,2-dimetilpropano

2.5 Scrivete il nome IUPAC di ciascuno dei seguenti composti:

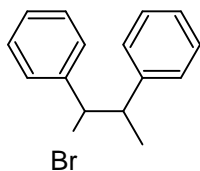


1,2,3,4,5,6-esaclorocicloesano

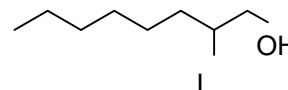


2.6 Scrivere le formule corrispondenti ai seguenti nomi:

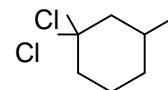
a. 1-bromo-1,2-difenilpropano



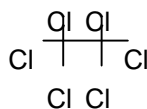
c. 2-iodo-1-ottanolo



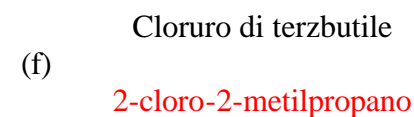
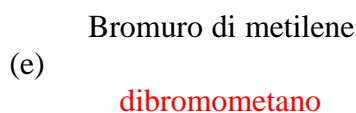
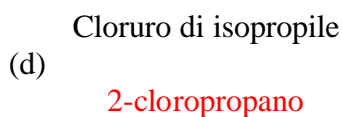
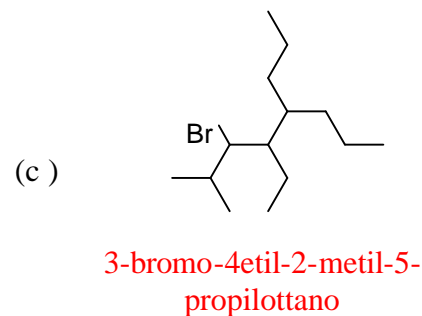
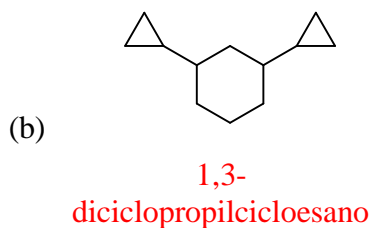
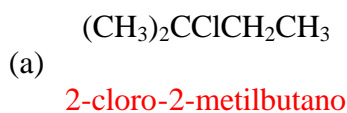
d. 1,1-dicloro-3-metilcicloesano



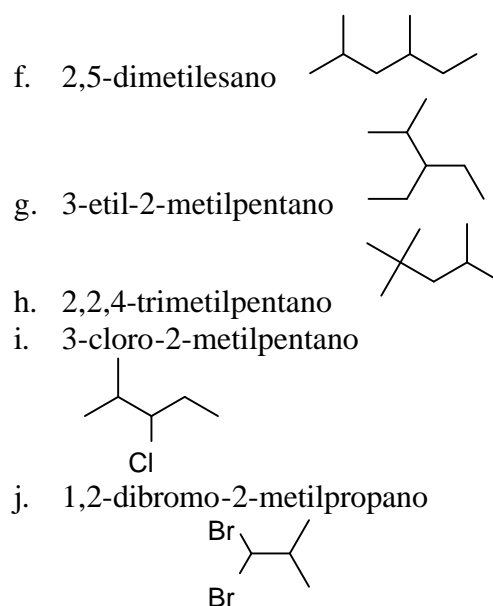
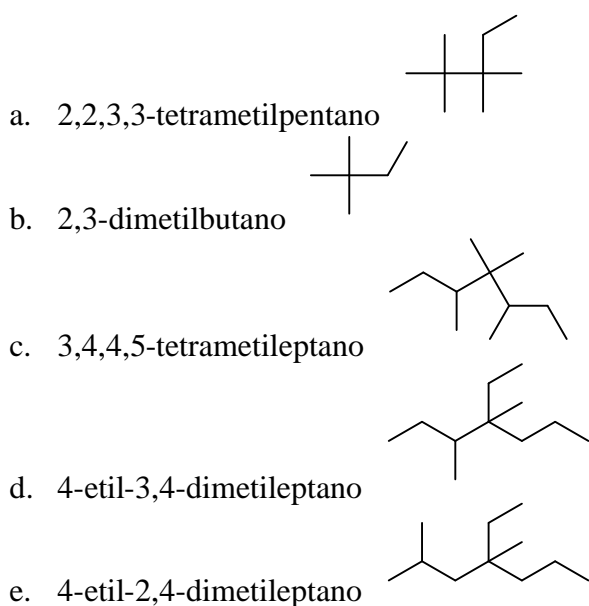
b. esacloroetano



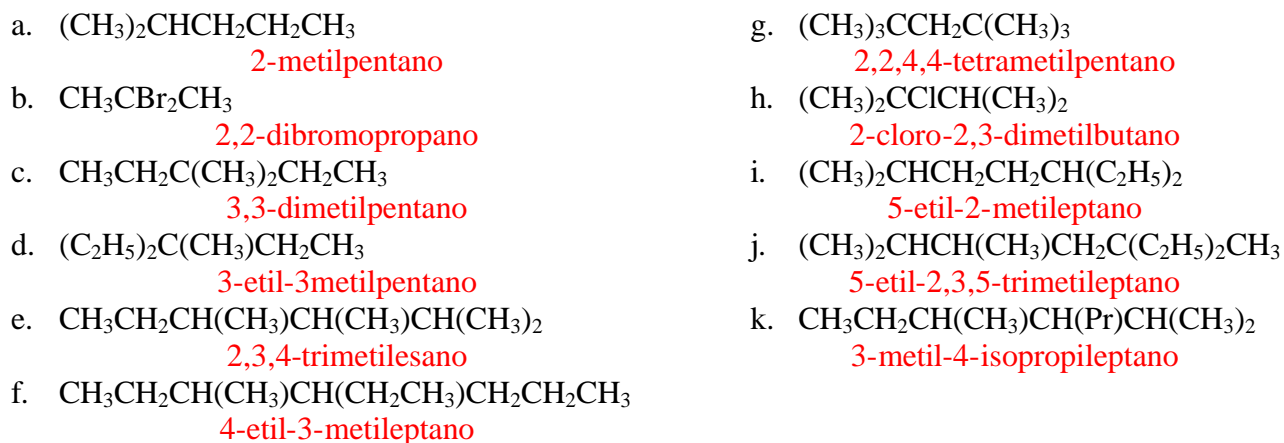
2.7 Dare i nomi IUPAC ai seguenti composti



2.8 Scrivere le formule corrispondenti ai seguenti nomi:



2.9 Scrivere le formule di struttura e il nome IUPAC dei seguenti composti:



2.10 Indicare un composto contenuto nei Problemi 8 e 9 che abbia:

- nessun carbonio terziario
- un carbonio terziario
- due carboni terziari
- nessun carbonio secondario
- due carboni secondari
- un numero di idrogeni secondari metà di quello degli idrogeni primari

2.11 Scegliere un composto (se esiste) contenuto nei Problemi 8 e 9 che abbia:

- un gruppo iso-propilico
- due gruppi iso-propilici
- un gruppo iso-butilico
- due gruppi iso-butilici
- un gruppo sec-butilico
- due gruppi sec-butilici
- un gruppo terz-butile
- due gruppi terz-butilici
- un gruppo metilico, uno etilico, uno n-propilico e uno sec-butilico