

Prima prova scritta

Tecniche cromatografiche per l'analisi chimica

Proprietà e reattività degli alcoli

Spontaneità di un processo chimico

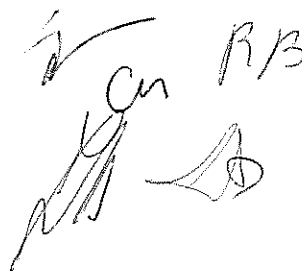
CN
CN
CN

Seconda prova scritta

Tecniche analitiche in ambito ambientale

Analisi quantitativa

Le olefine

Handwritten signature and initials. The signature appears to be 'R/B' with a large, stylized 'C' or 'G' below it. There are also some other markings, possibly 'R/B' and 'C' or 'G'.

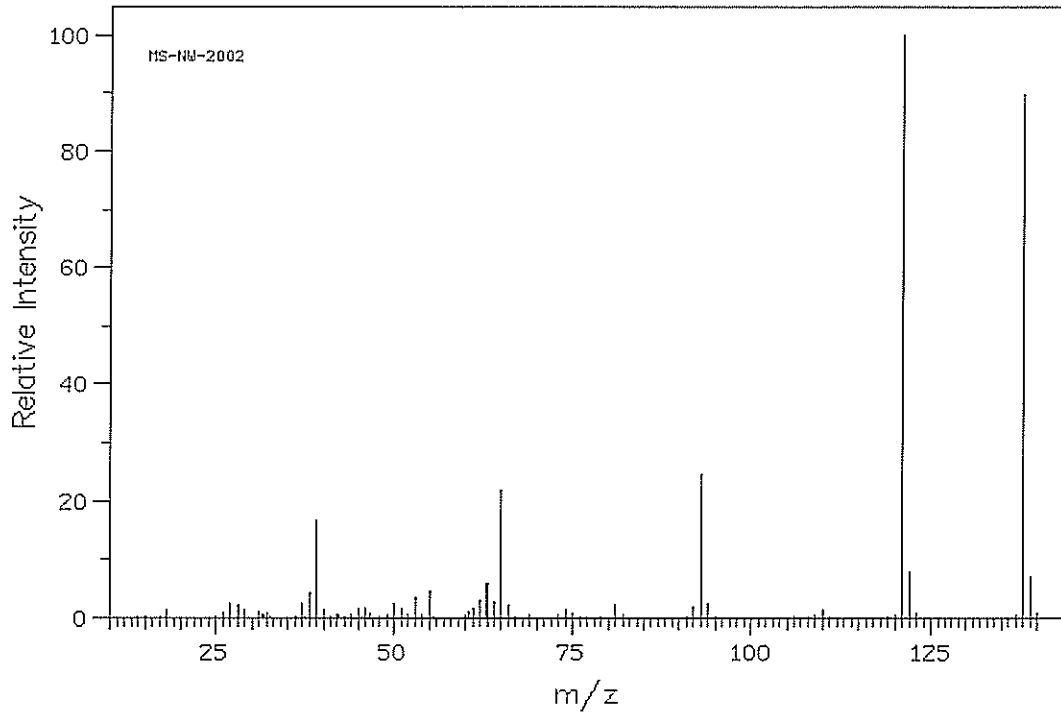
COMPOSTO 2 FORMULA BRUTA $C_7H_6O_3$

Identificare il composto dai dati presentati.

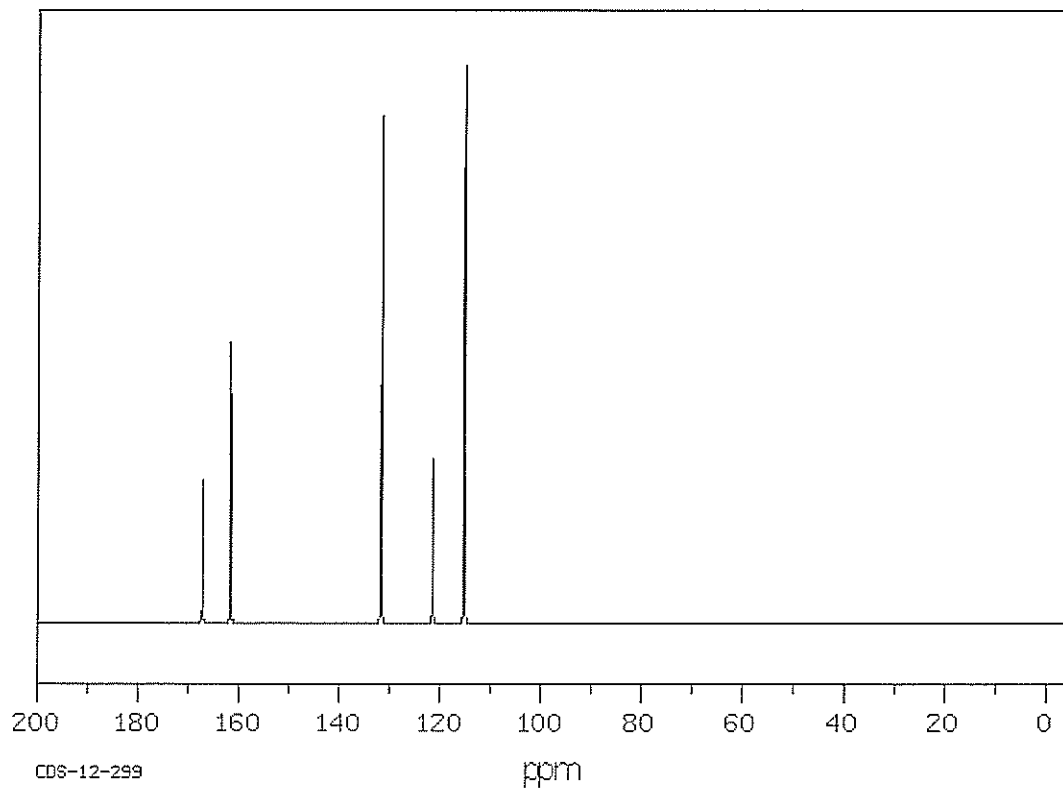
Distinguere i due isomeri A e B spiegando le attribuzioni

ISOMERO A

Spettro di massa



Spettro 13 CNMR in DMSO

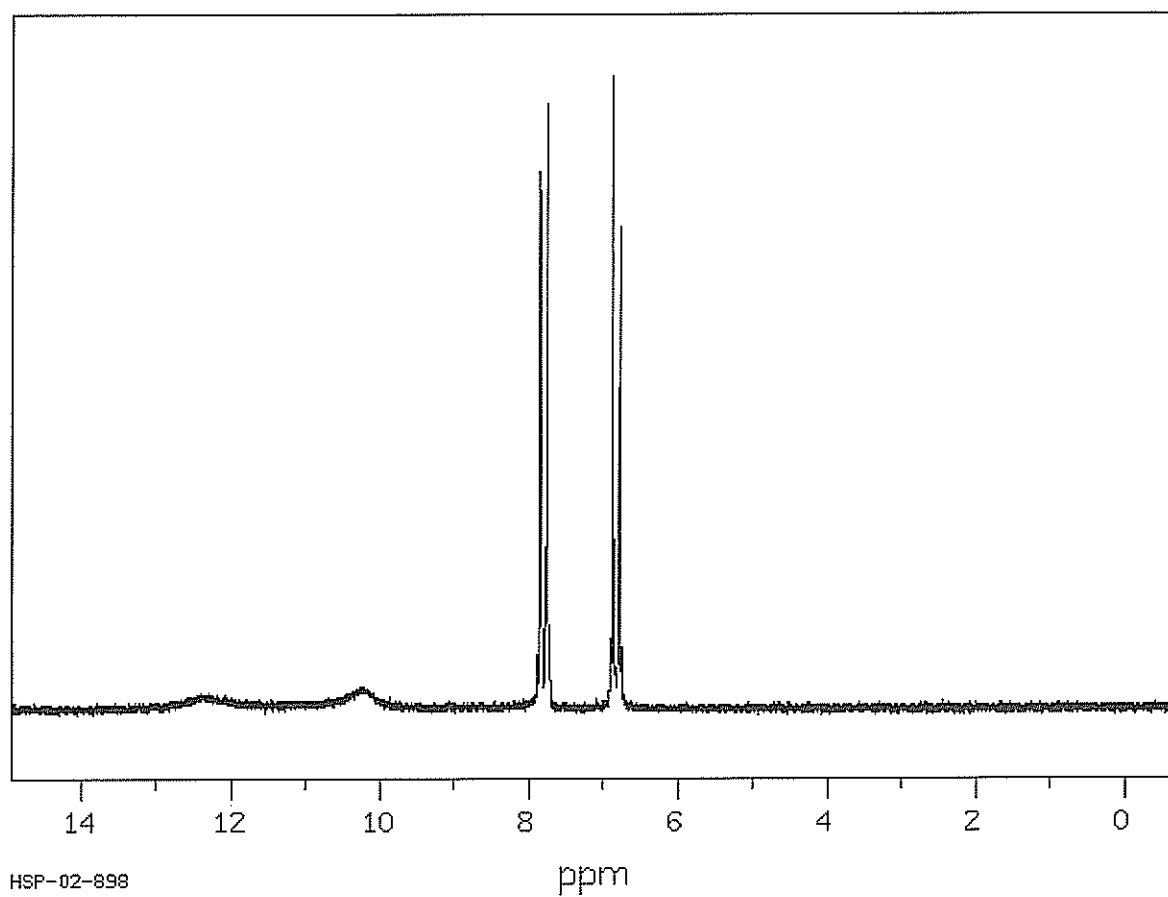


Handwritten notes and signatures in the top right corner, including "Chen" and "RB".

Handwritten notes:
✓
y
RB
D
Ch

Spettro

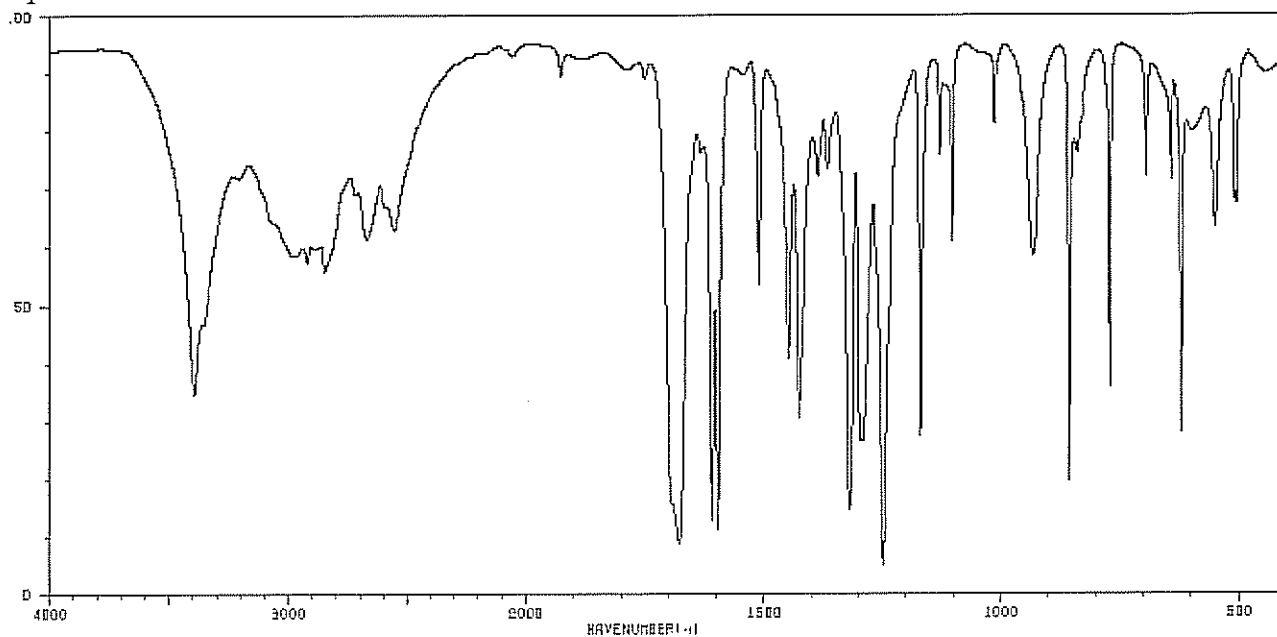
^1H NMR in DMSO



HSP-02-898

Spettro

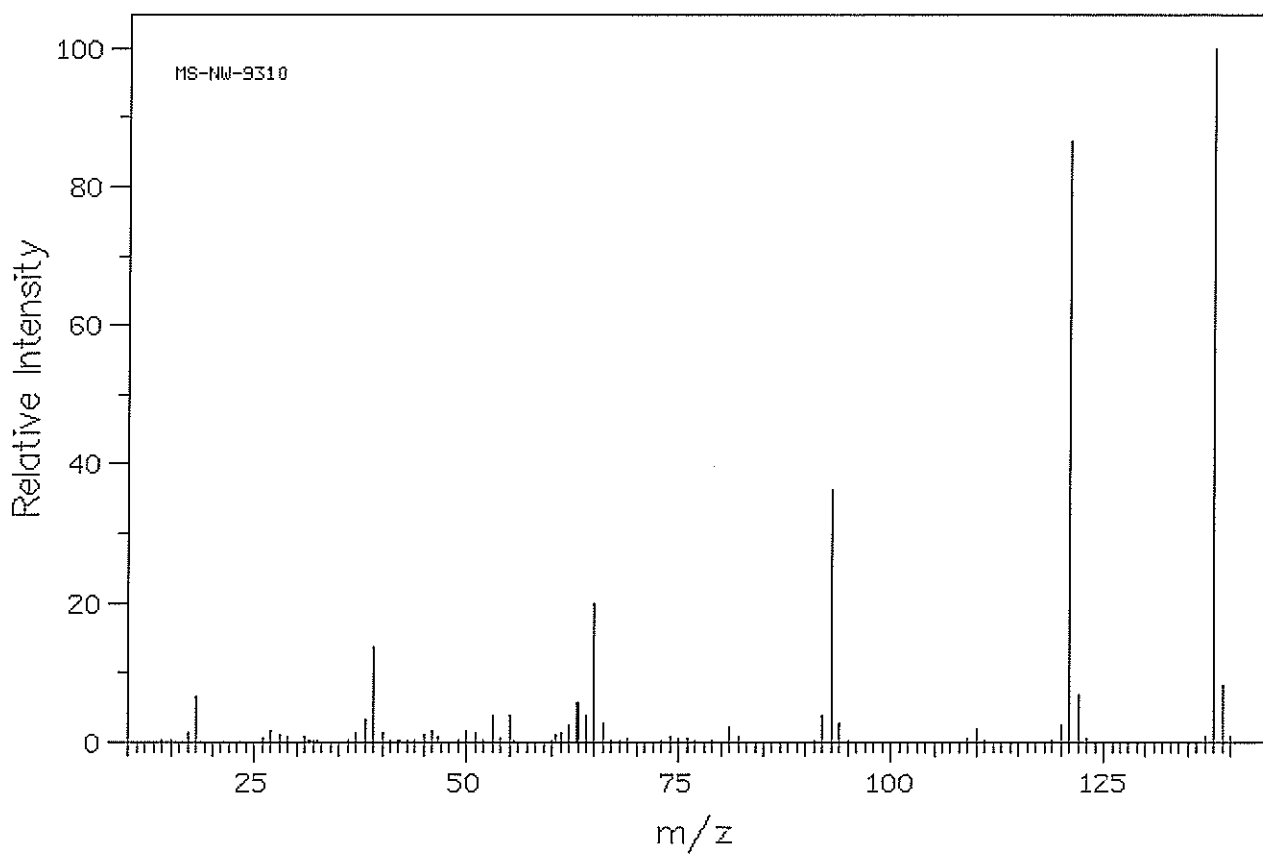
FT IR in KBr



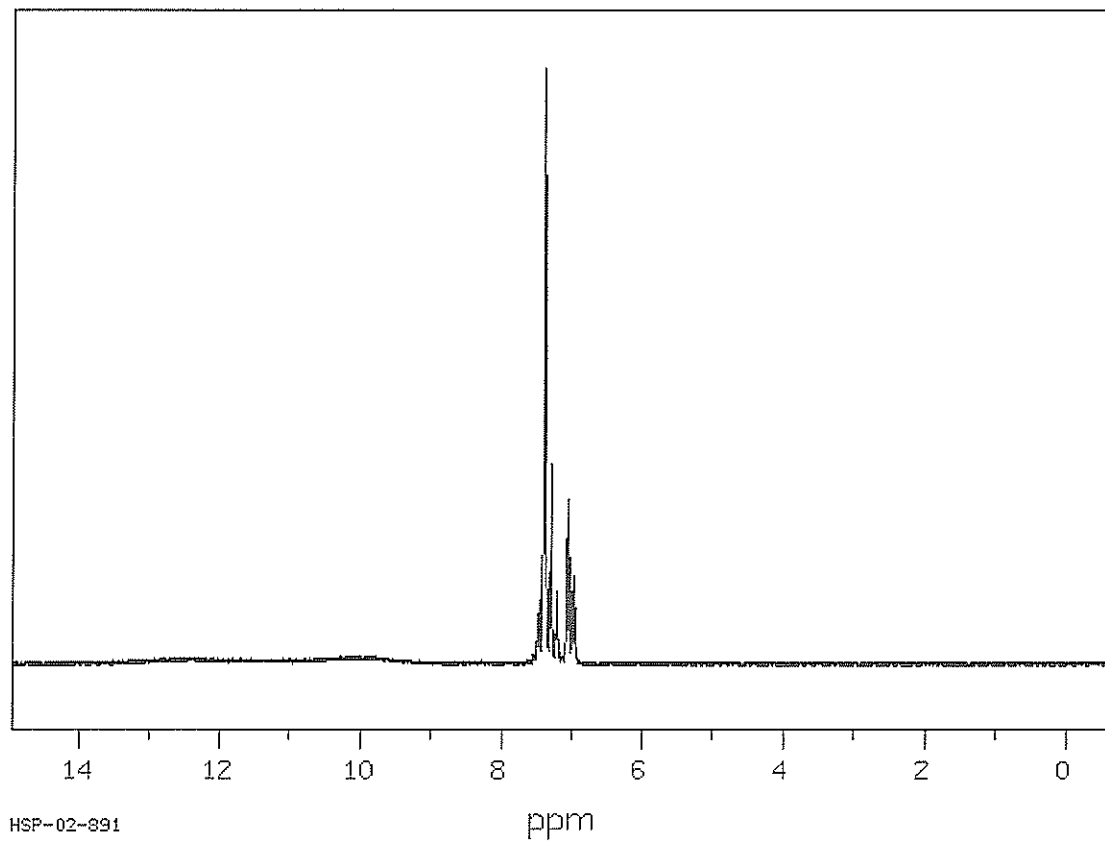
✓
St
Y
2D
Cm.
R/B

ISOMERO B

Spettro di massa

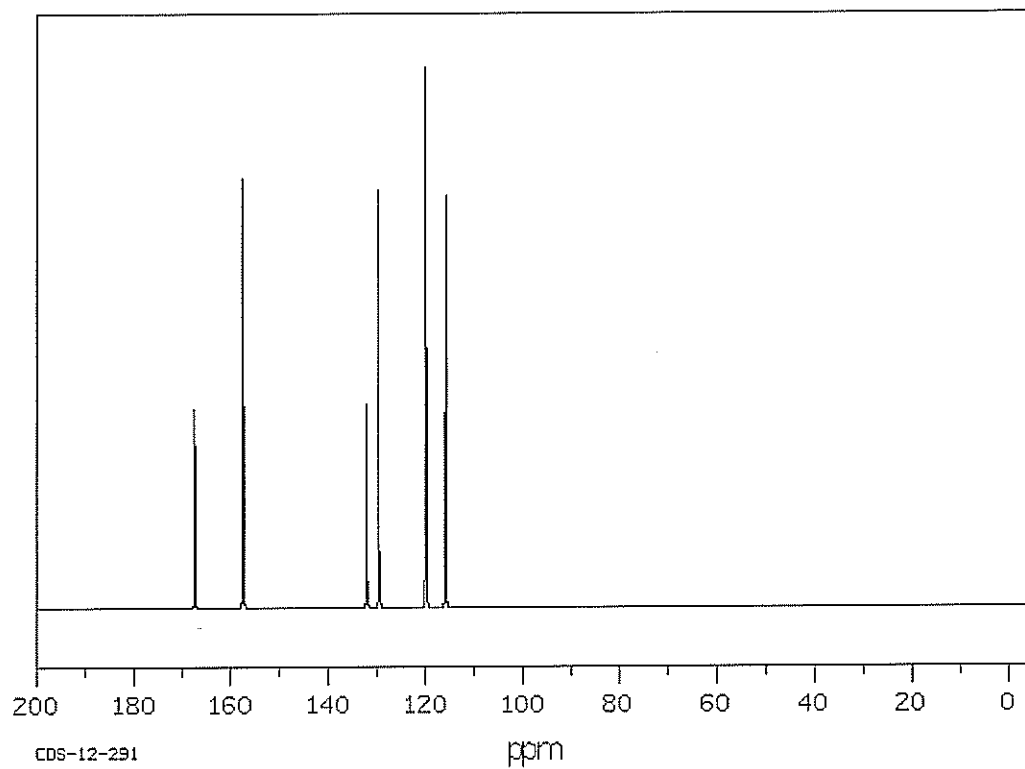


Spettro 1H NMR in DMSO

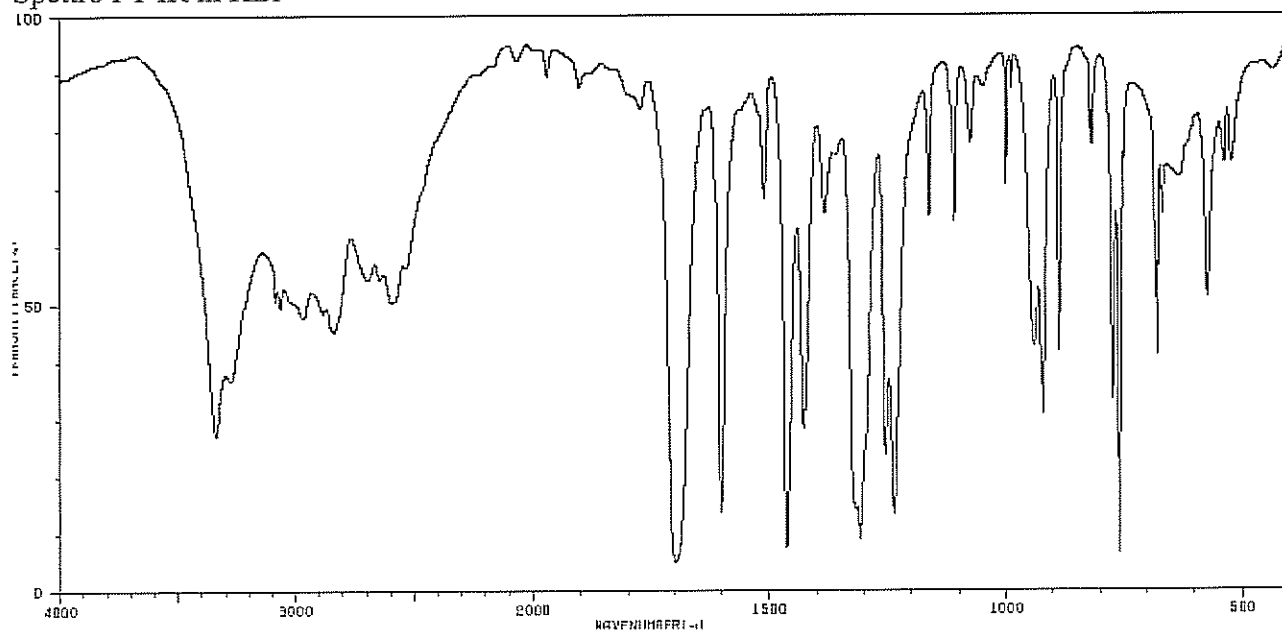


4
AD
AB
Ch
AB

Spettro ^{13}C NMR in DMSO



Spettro FT IR in KBr

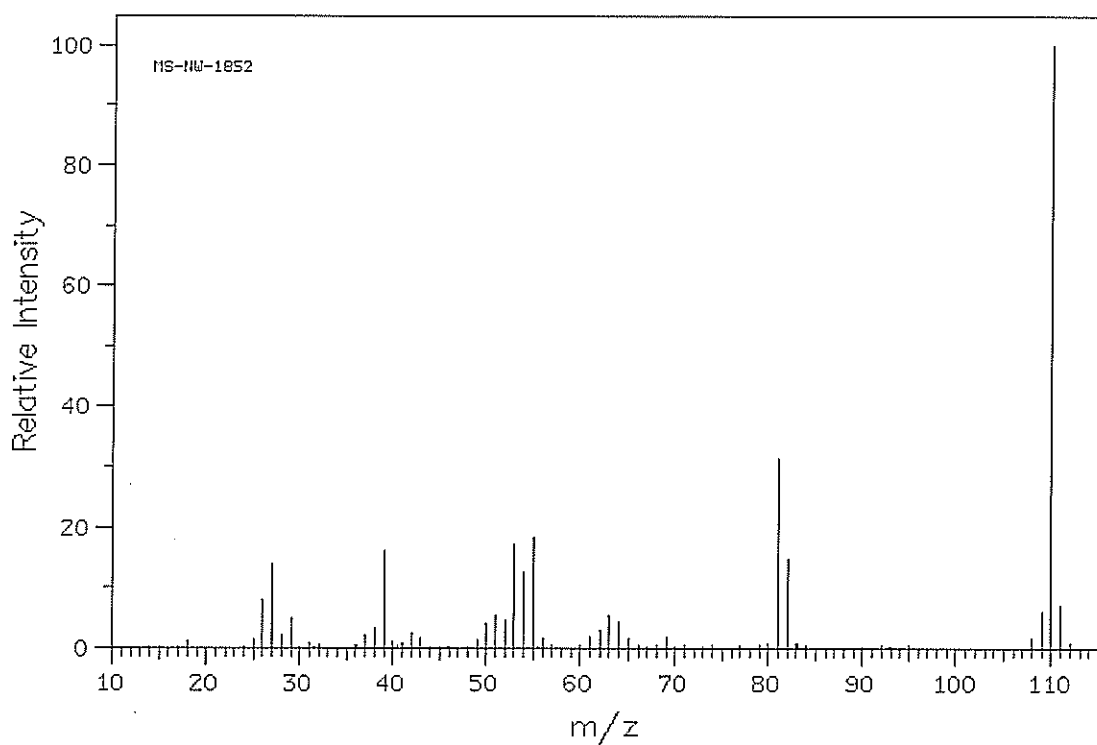


✓ R_B
AB
29
Cm

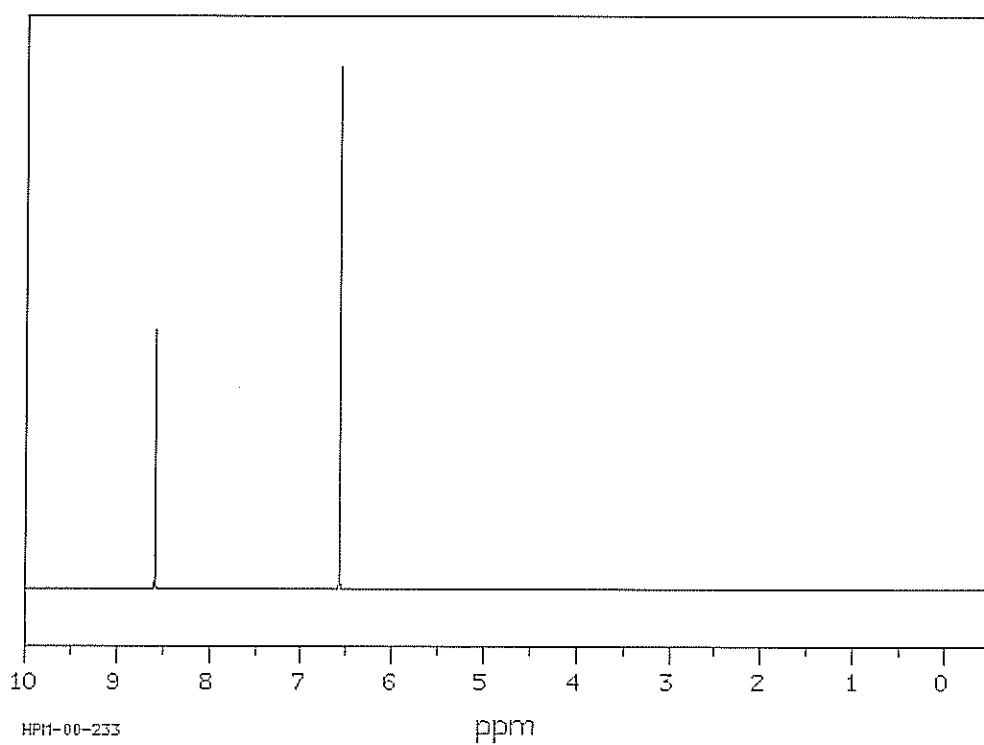
COMPOSTO 3 FORMULA BRUTA C₆H₆O₂

Identificare il composto dai dati presentati.
Distinguere i due isomeri A e B spiegando le attribuzioni

ISOMERO A

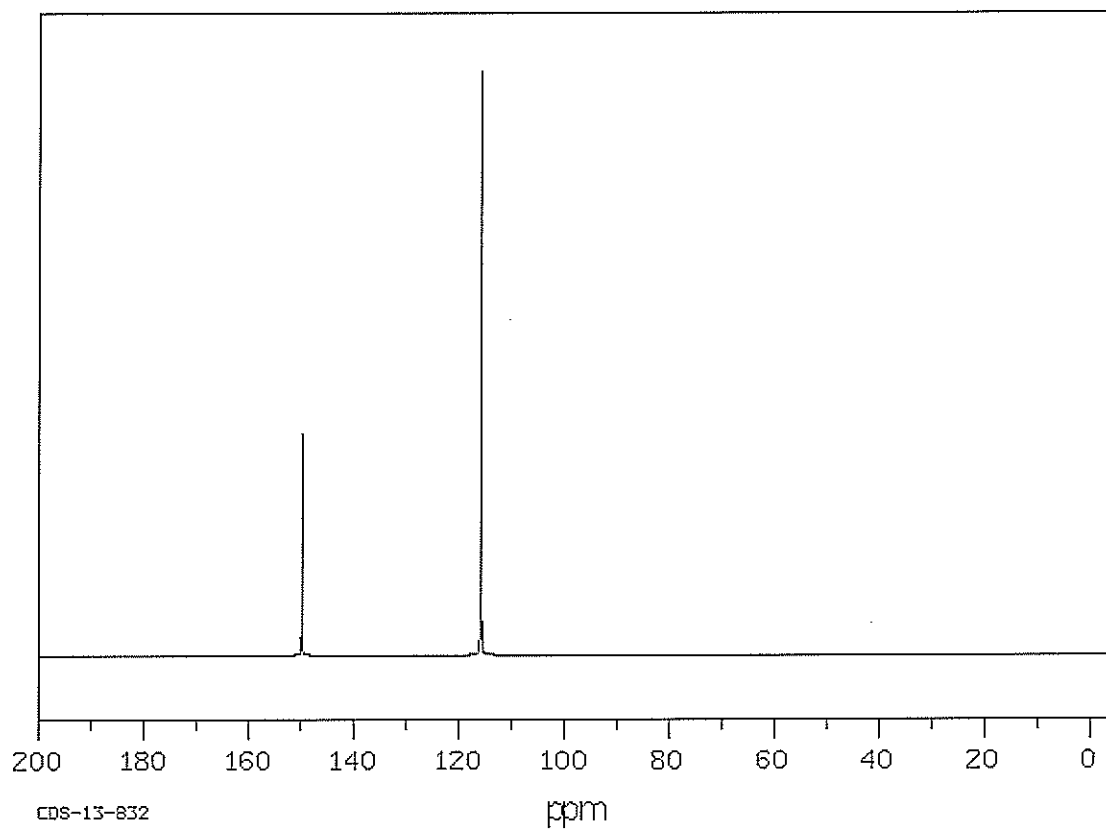


spettro ¹H NMR in DMSO

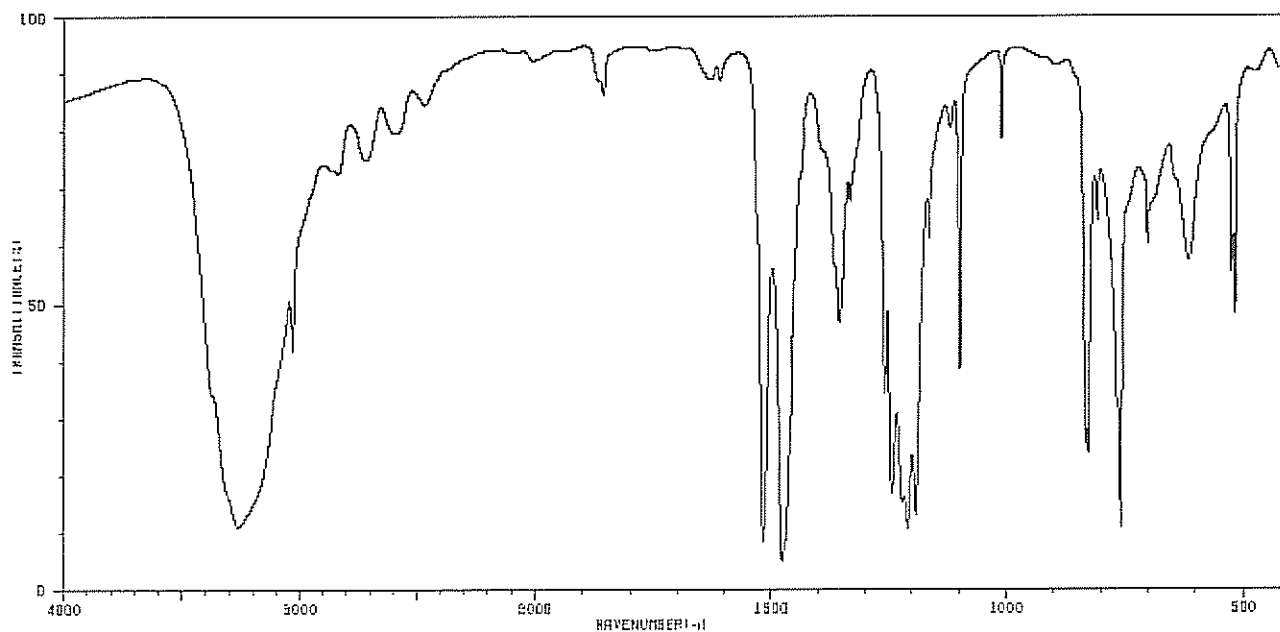


W AD RB Am

Spettro 13 C NMR in DMSO



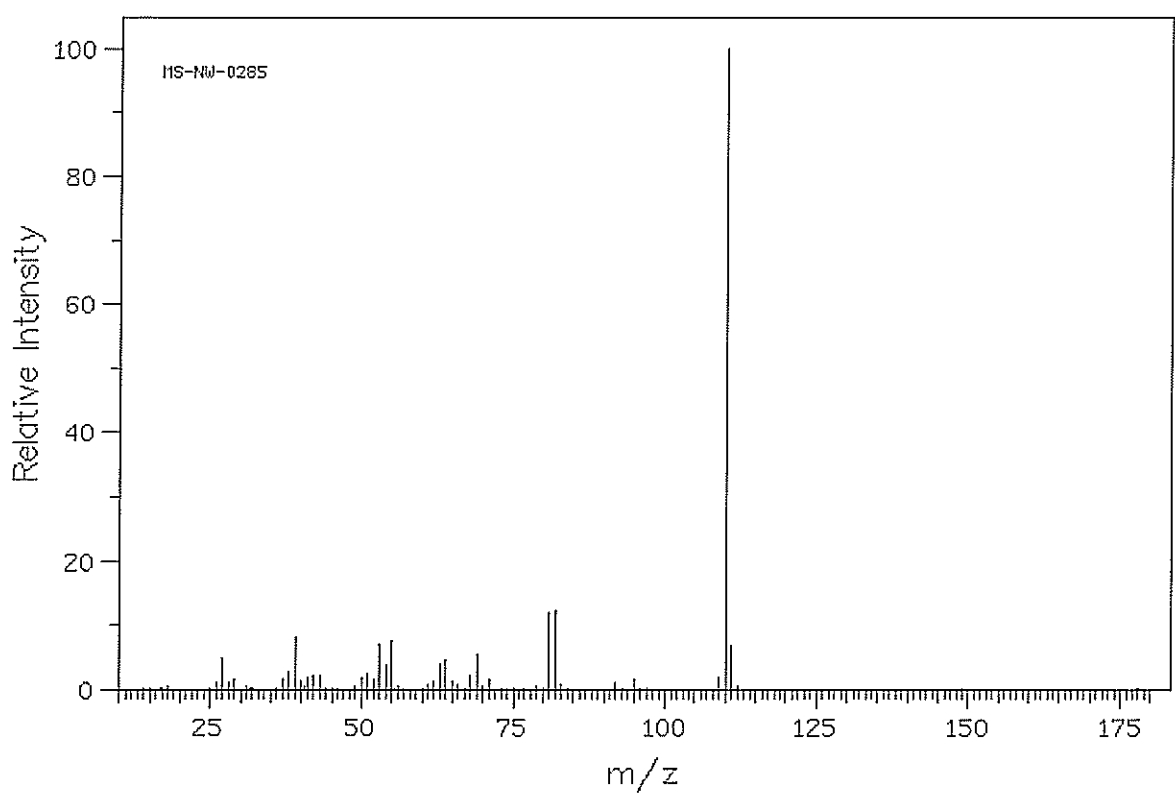
spettro FT IR in KBr



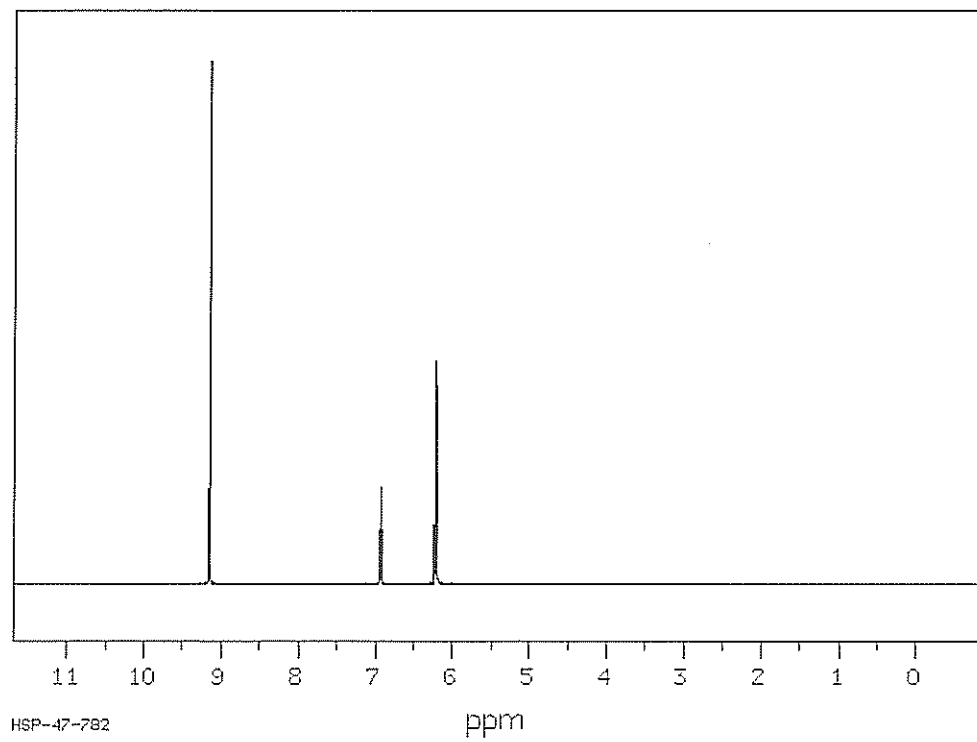
is
shy
shy
Ch
R/B

ISOMERO B

Spettro di massa

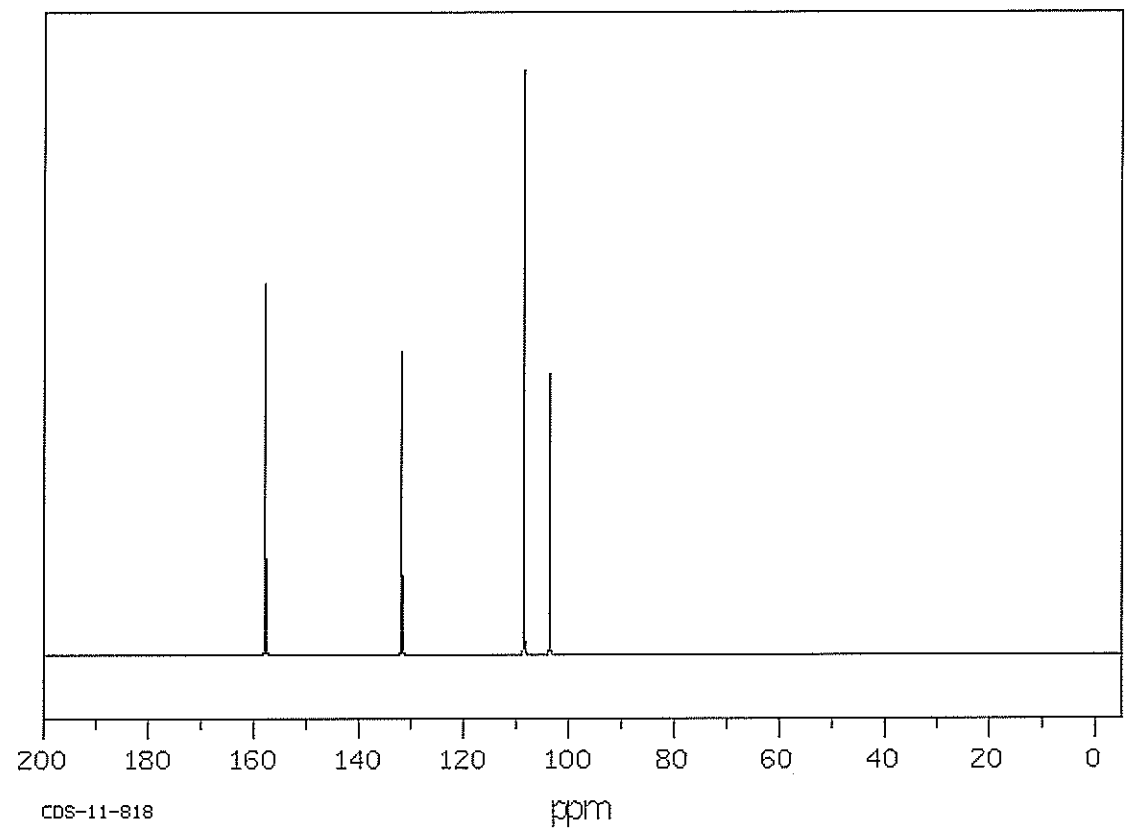


Spettro 1H NMR in DMSO



ir ^{LD} RB ^{RB} Ch.

spettro 13 C NMR



spettro FT IR in KBr

