

Supporting Information

Morita-Baylis-Hilman Reaction of Chiral Aziridine Aldehyde

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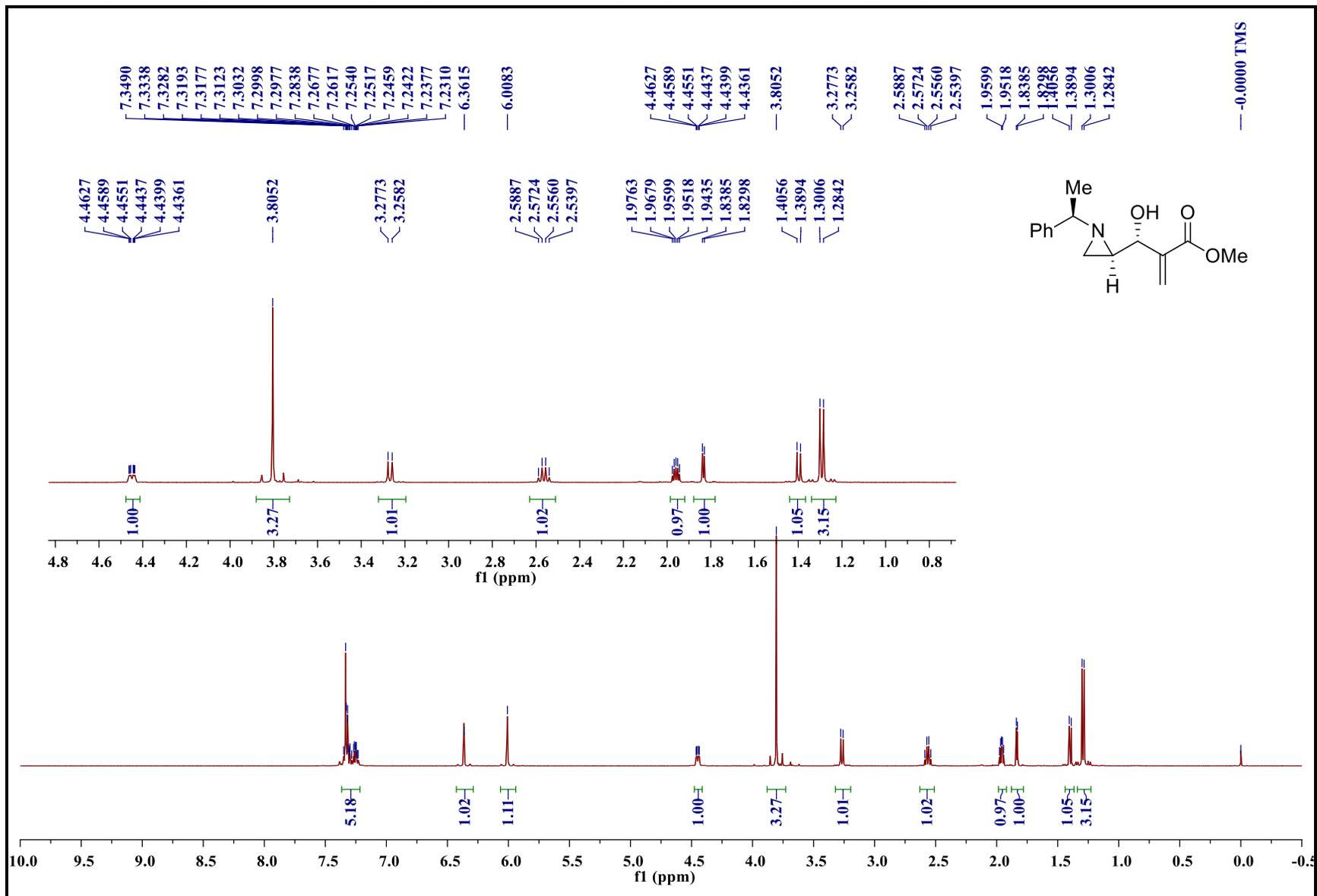
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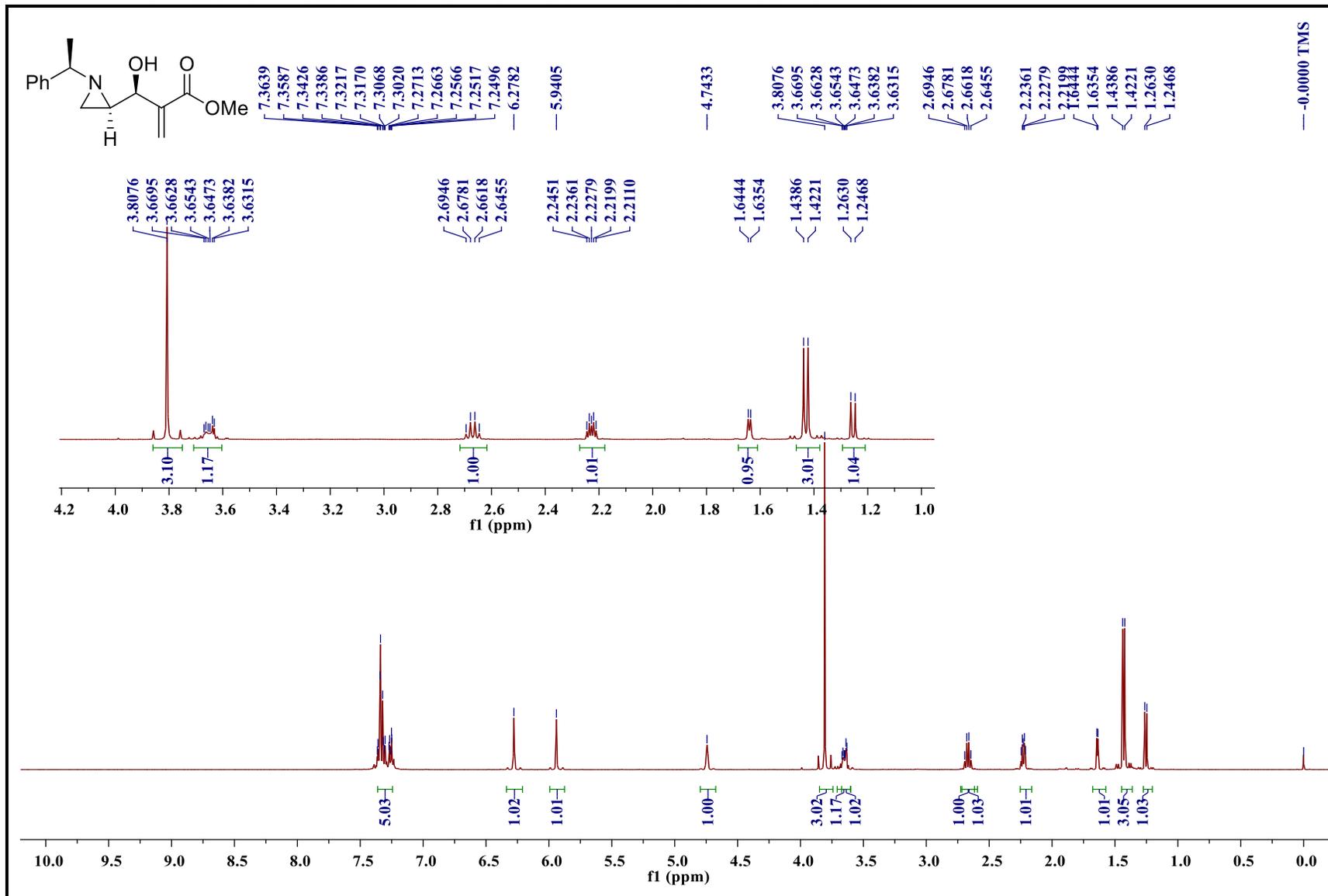
Table of Content:

Entry	¹ H and ¹³ C NMR	Page No.
1	¹ H & ¹³ C NMR of methyl 2-((R)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate (3a)	S3-S4
2	¹ H & ¹³ C NMR methyl 2-((S)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate (3b)	S5-S6
3	¹ H NMR of diastereomeric mixture of anti (3a) and syn (3b) in ratio of (86:14)	S-7
4	¹ H & ¹³ C NMR of ethyl 2-((R)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate (4a)	S8-S9
5	¹ H & ¹³ C NMR of Ethyl 2-((S)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate (4b)	S10-S11
6	¹ H & ¹³ C NMR of tert-butyl 2-((R)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl) methyl)acrylate (5a)	S12-S13
7	¹ H & ¹³ C NMR of tert-butyl 2-((S)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl) methyl)acrylate (5b)	S14-S15
8	¹ H & ¹³ C NMR of butyl 2-((R)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl) acrylate (6a)	S16-S17
9	¹ H & ¹³ C NMR of butyl 2-((S)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate (6b)	S18-S19
10	¹ H & ¹³ C NMR of 2-((R)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylo nitrile (7a)	S20-S21
11	¹ H & ¹³ C NMR of 2-((S)-hydroxy(®-1-(®-1-phenylethyl)2ziridine-2-yl)methyl)acrylo nitrile (7b)	S22-S23
12	¹ H NMR of tert-butyl-2-((4S,5R)-4-(chloromethyl)-2-oxo-3-((R)-1-phenylethyl) oxazolidin-5-yl)acrylate (10)	S24
13	¹ H & ¹³ C NMR of tert-butyl 2-((R)-((tert-butyldimethylsilyl)oxy))((R)-1-((R)-1-phenyl ethyl)aziridin-2-yl)methyl) acrylate (11)	S25-S26
14	¹ H & ¹³ C NMR of (3R,4R,5R)-tert-butyl 5-(acetoxymethyl)-4-((tert-butyldimethyl silyl)oxy)-1-((R)-1-phenylethyl) pyrrolidine-3-carboxylate (12)	S27-S28
15	NOESY NMR of (3R,4R,5R)-tert-butyl 5-(acetoxymethyl)-4-((tert-butyldimethylsilyl)oxy)-1-((R)-1-phenylethyl) pyrrolidine-3-carboxylate (12)	S29
16	¹ H & ¹³ C NMR of (3R,4R,5R)-di-tert-butyl 5-(acetoxymethyl)-4-((tert-butyldimethyl silyl)oxy)pyrrolidine-1,3-dicarboxylate (13)	S30-S31

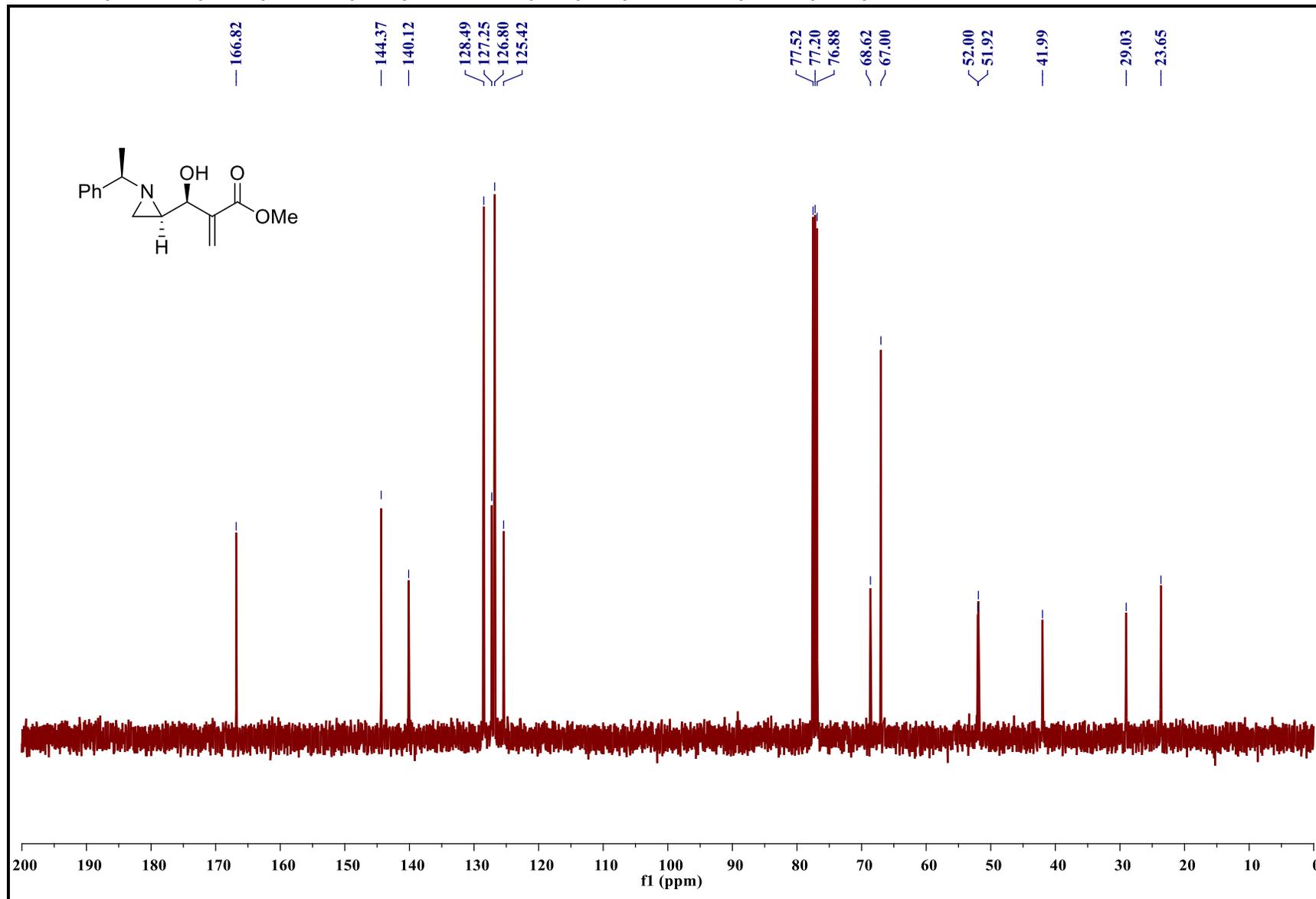
***1*H NMR spectrum of methyl 2-((*R*)-hydroxy((*R*)-1-((*R*)-1-phenylethyl)aziridin-2-yl)methyl)acrylate **3a**:**



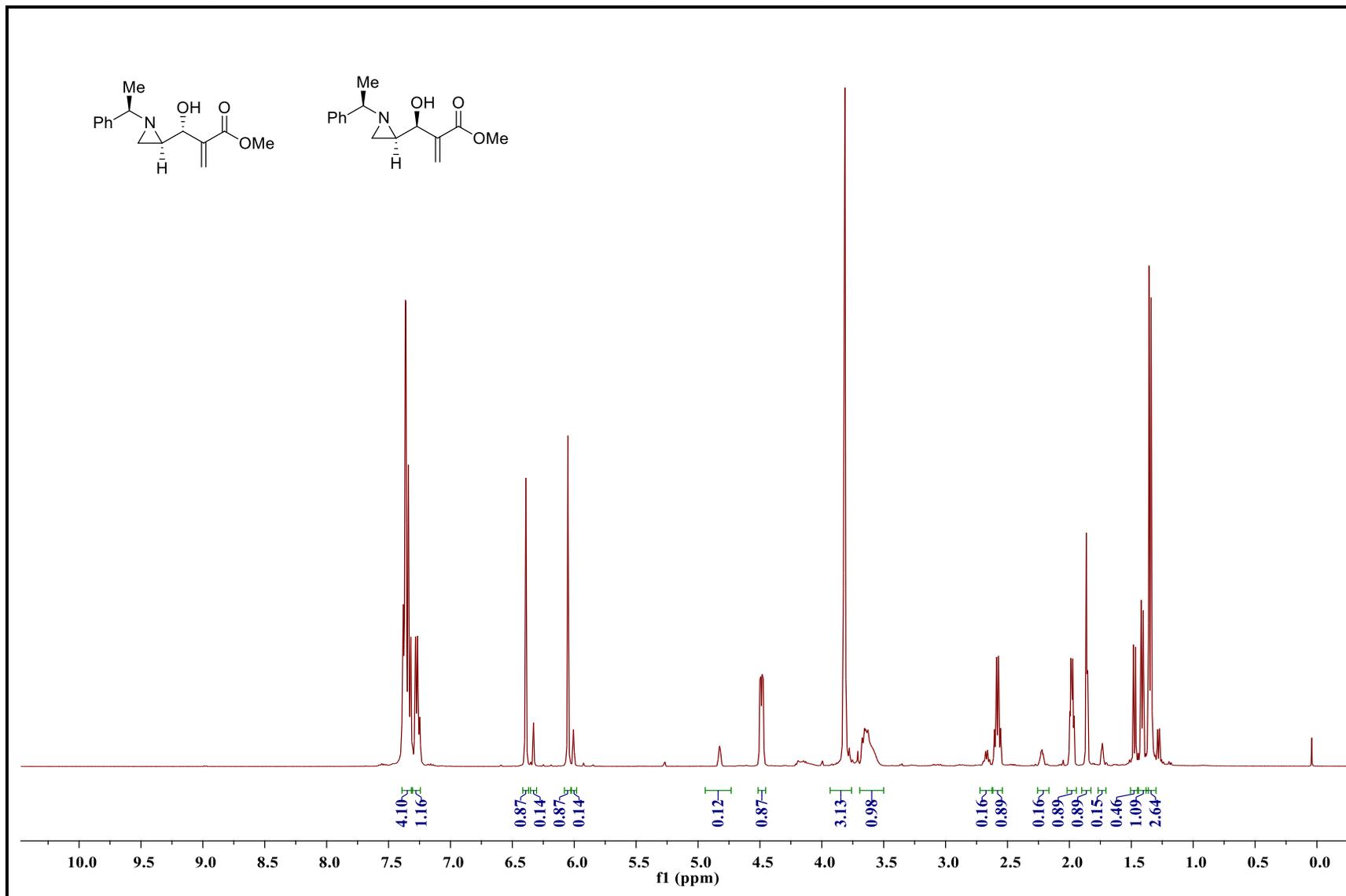
***1*HNMR methyl 2-((*S*)-hydroxy((*R*)-1-((*R*)-1-phenylethyl)aziridin-2-yl)methyl)acrylate (3b):**



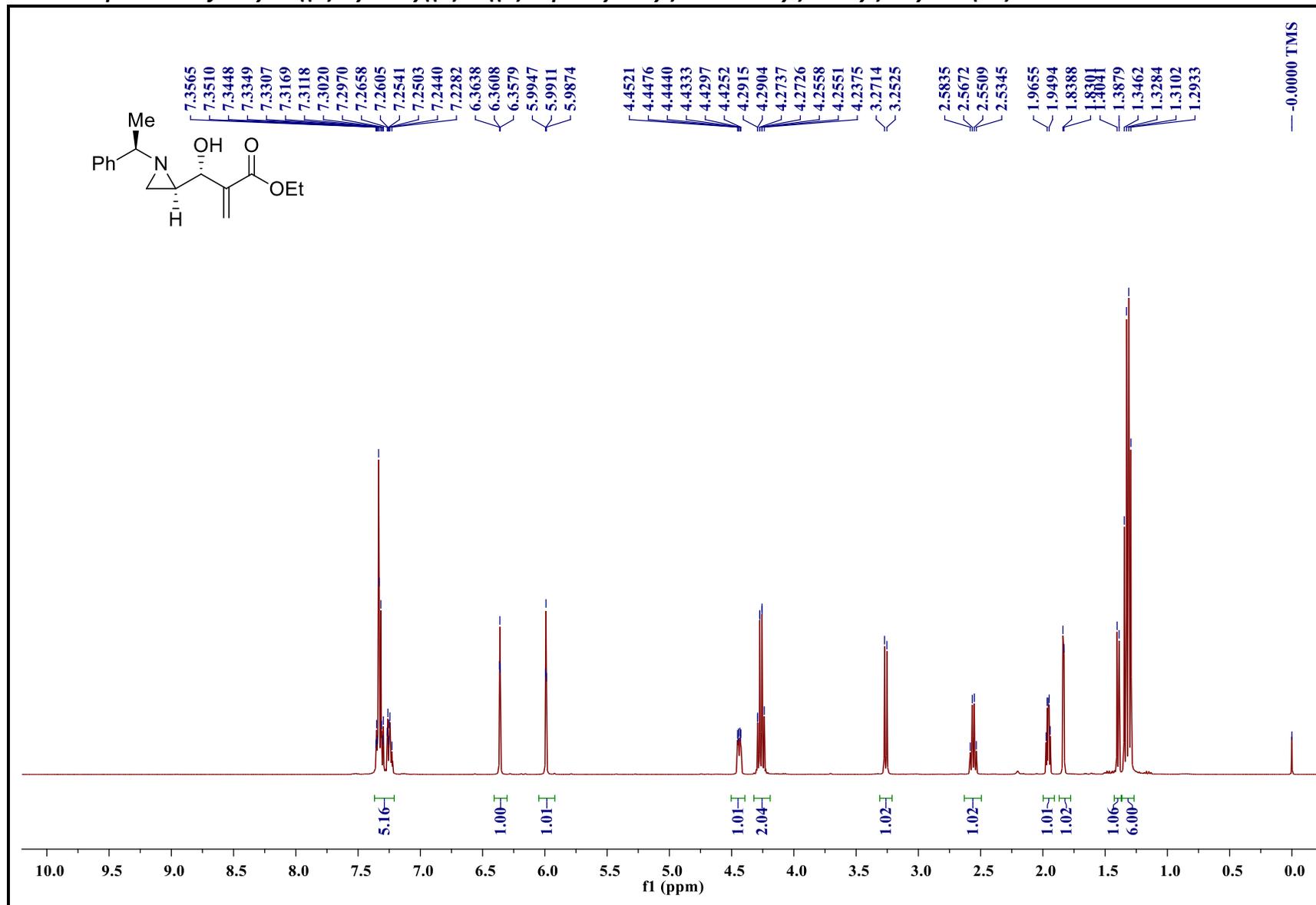
13C NMR spectrum of methyl 2-((S)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate (3b):



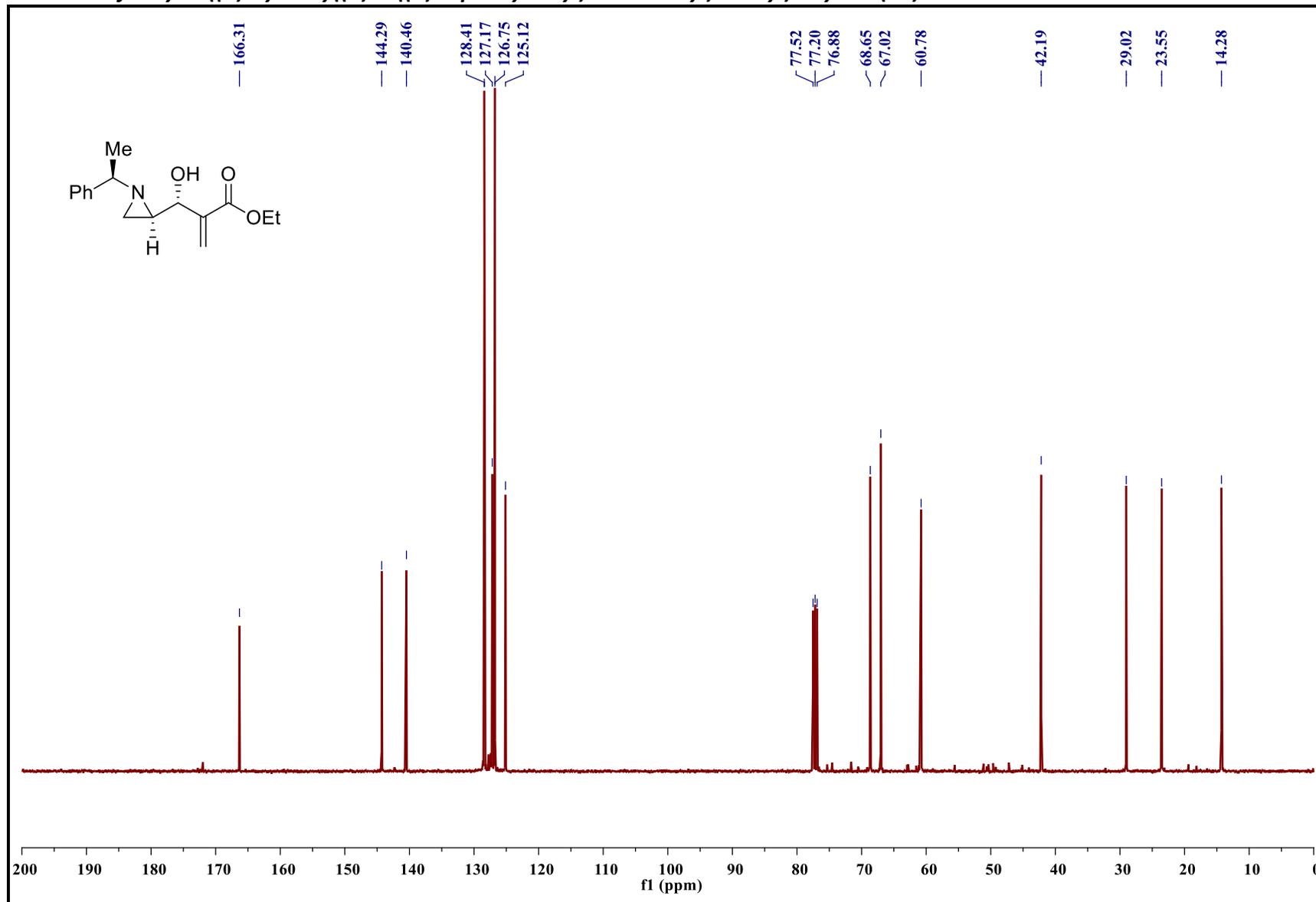
***1H* NMR spectrum of diastereomeric mixture of anti (3a) and syn (3b) in ratio of (86:14):**



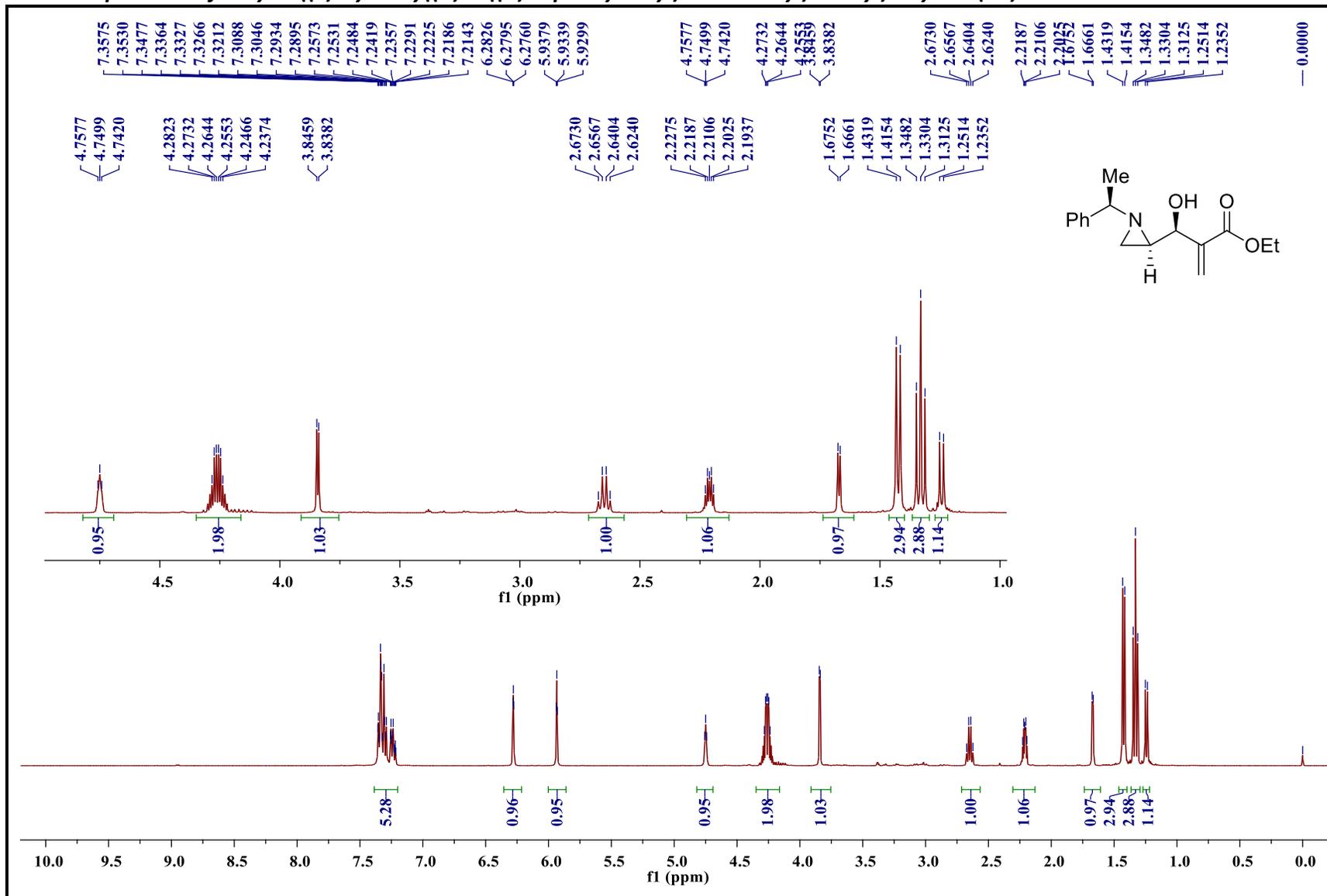
1H NMR spectrum of ethyl 2-((R)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate (4a):



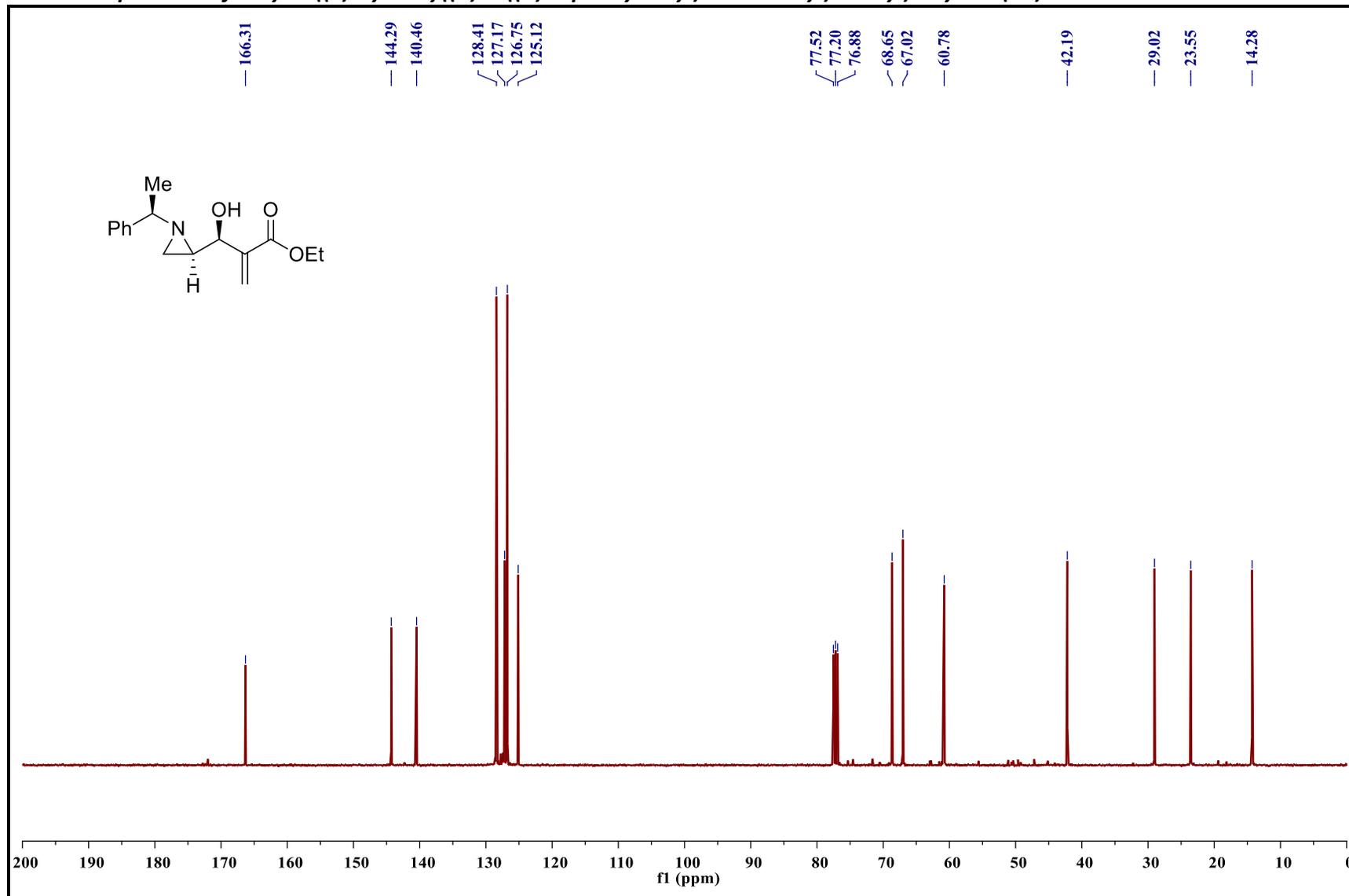
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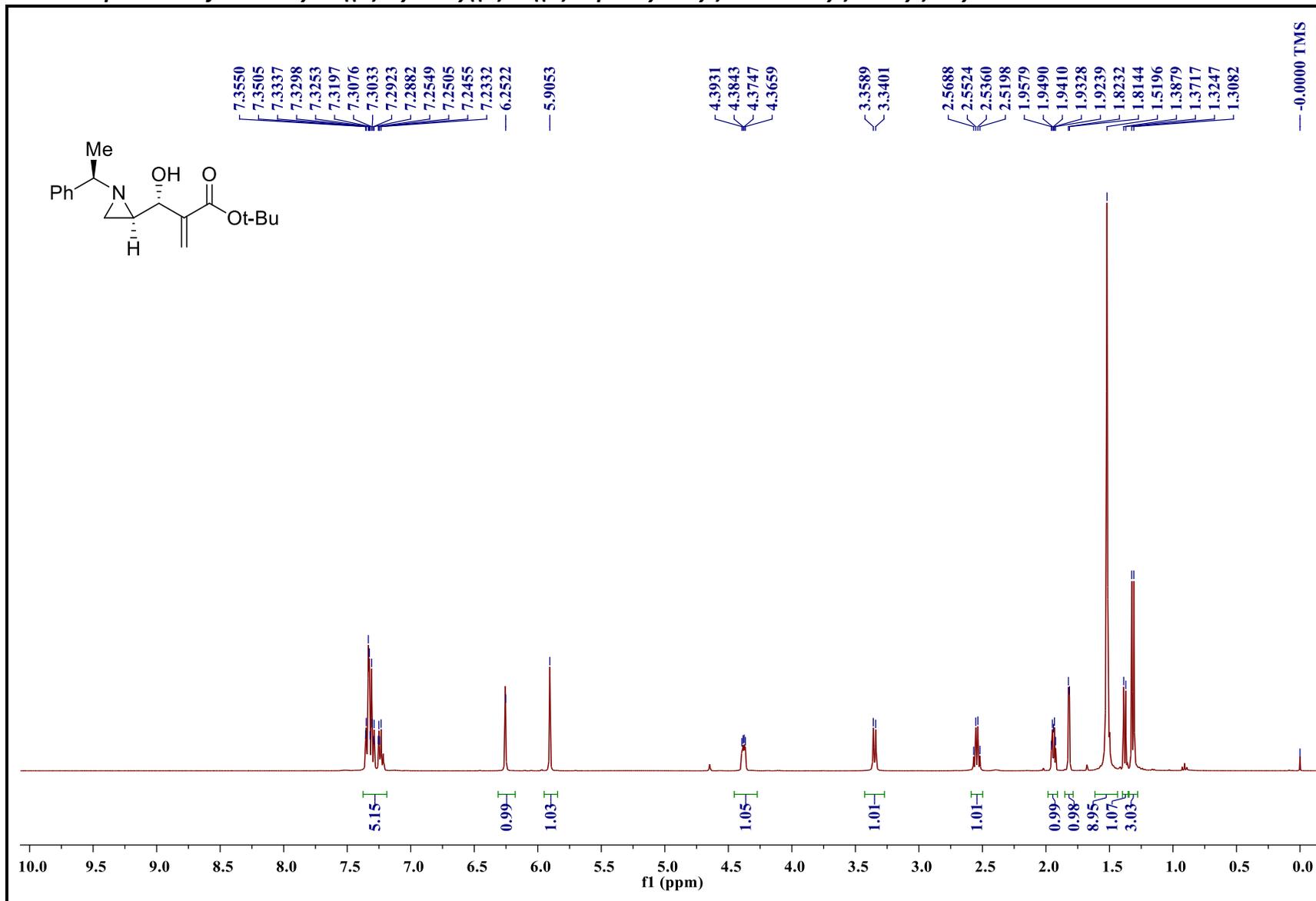
1H NMR spectrum of Ethyl 2-((S)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate (4b):



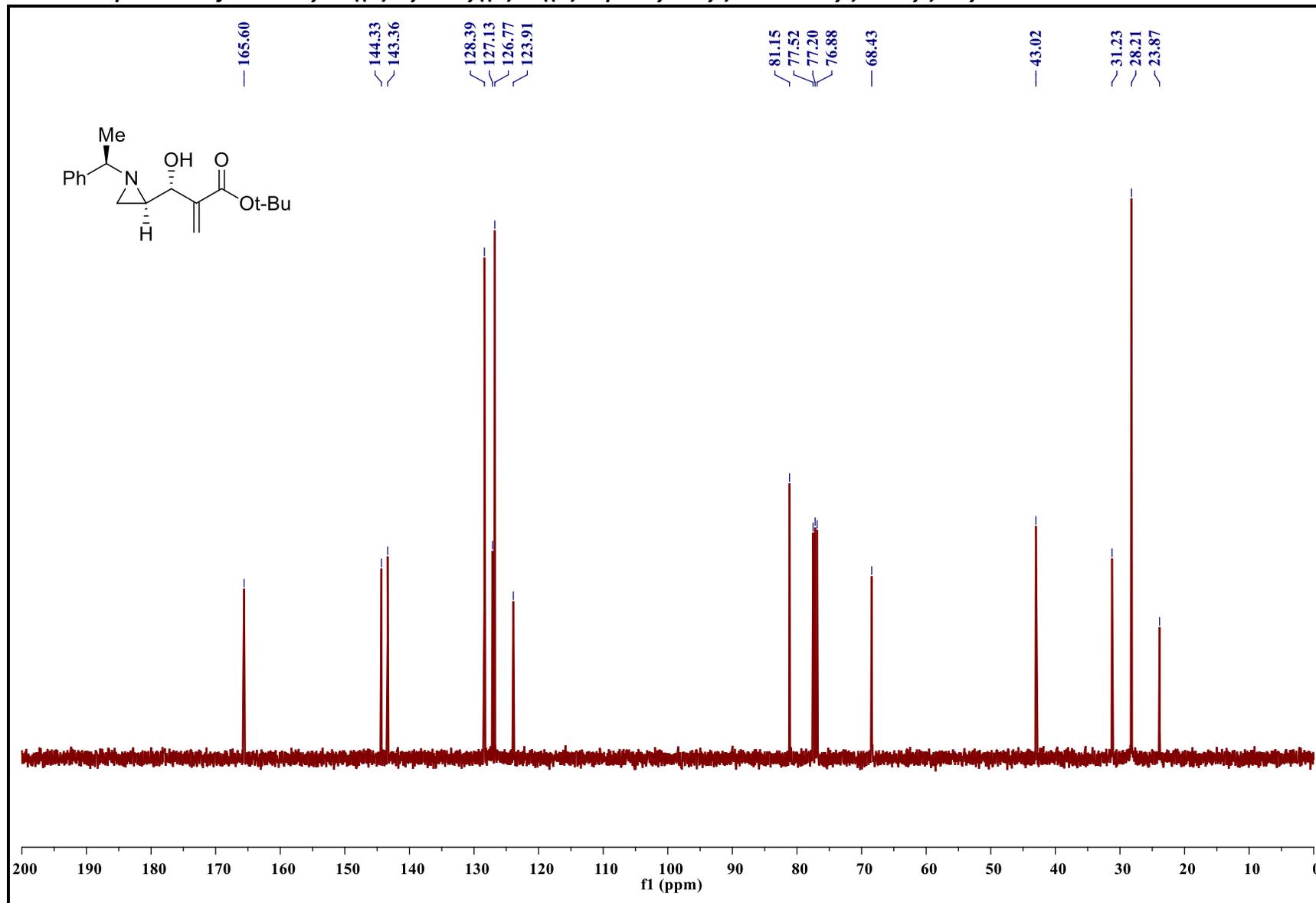
13C NMR spectrum of ethyl 2-((S)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate (4b):



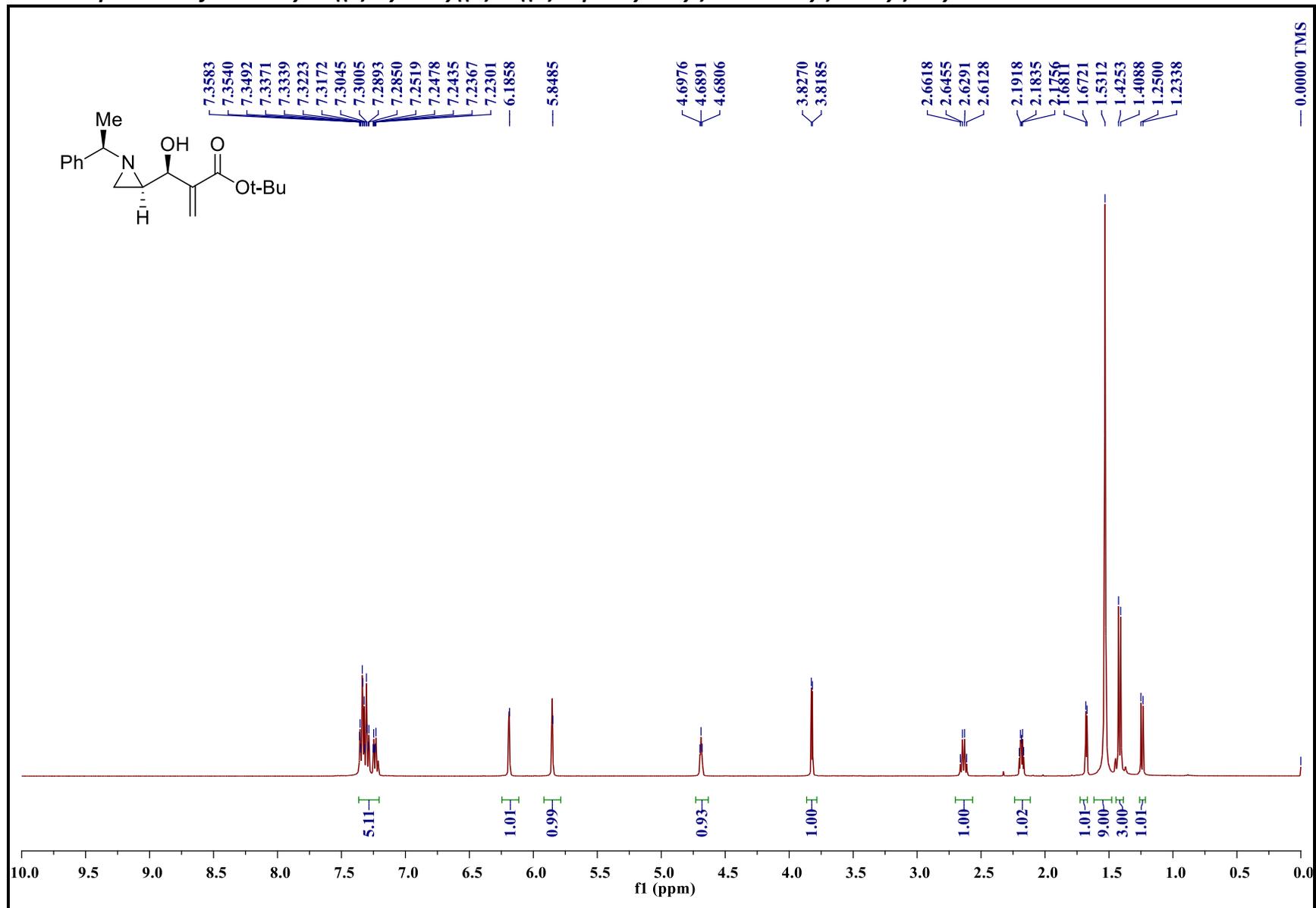
***1H* NMR spectrum of tert-butyl 2-((*R*)-hydroxy((*R*)-1-((*R*)-1-phenylethyl)aziridin-2-yl)methyl)acrylate 5a:**



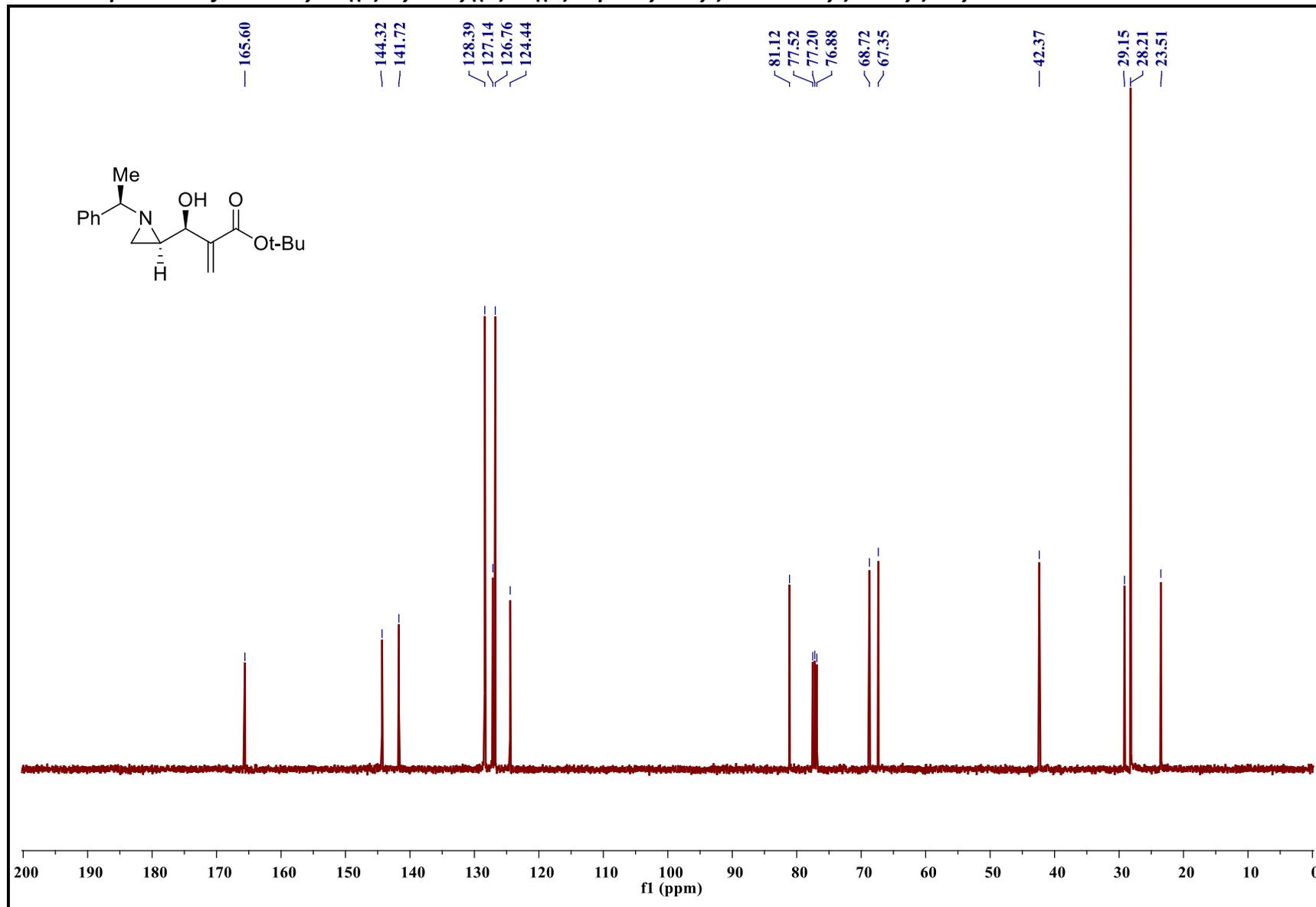
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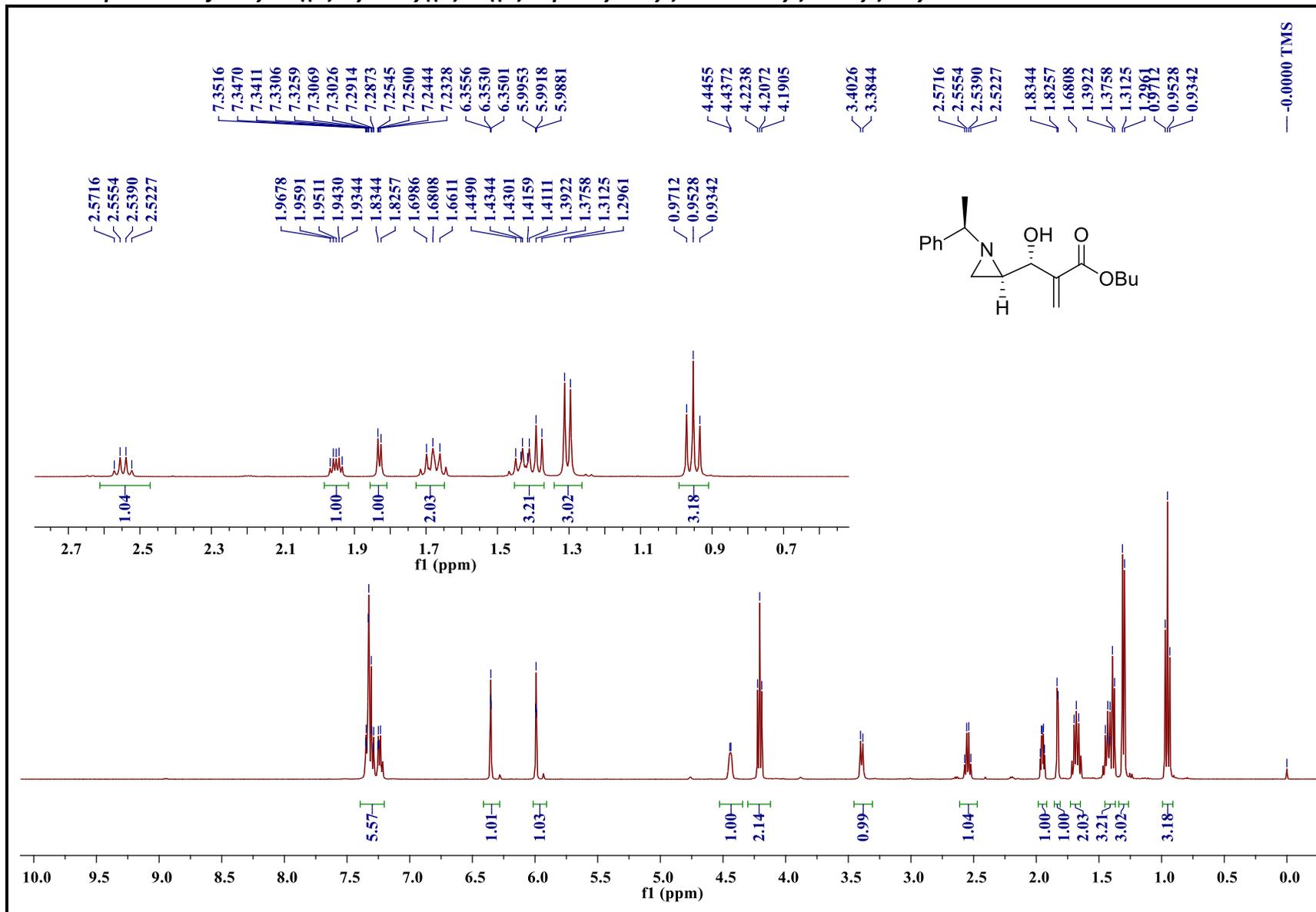
1HNMR spectrum of tert-butyl 2-((S)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate 5b:



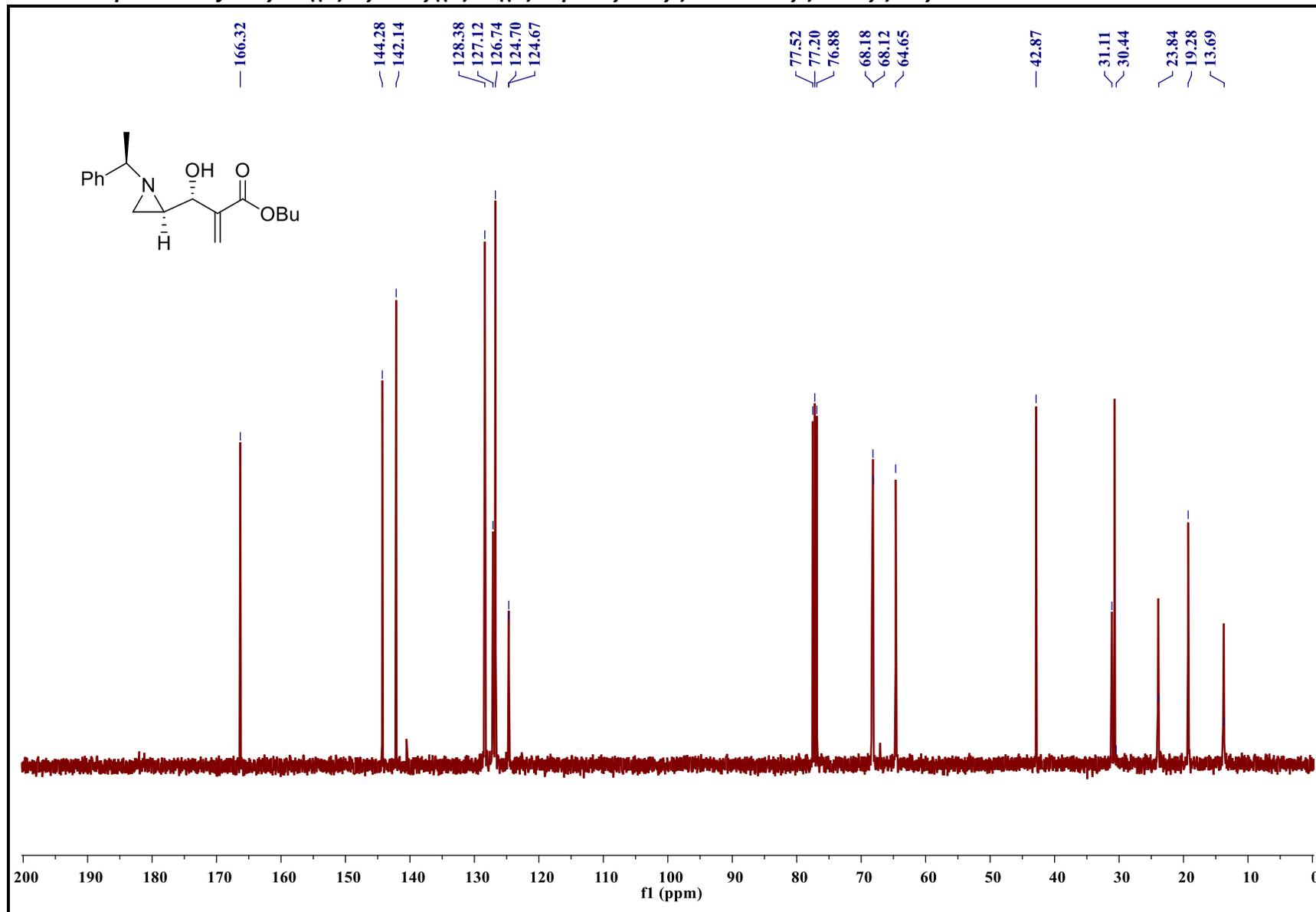
***13*CNMR spectrum of tert-butyl 2-((*S*)-hydroxy((*R*)-1-((*R*)-1-phenylethyl)aziridin-2-yl)methyl)acrylate 5b:**



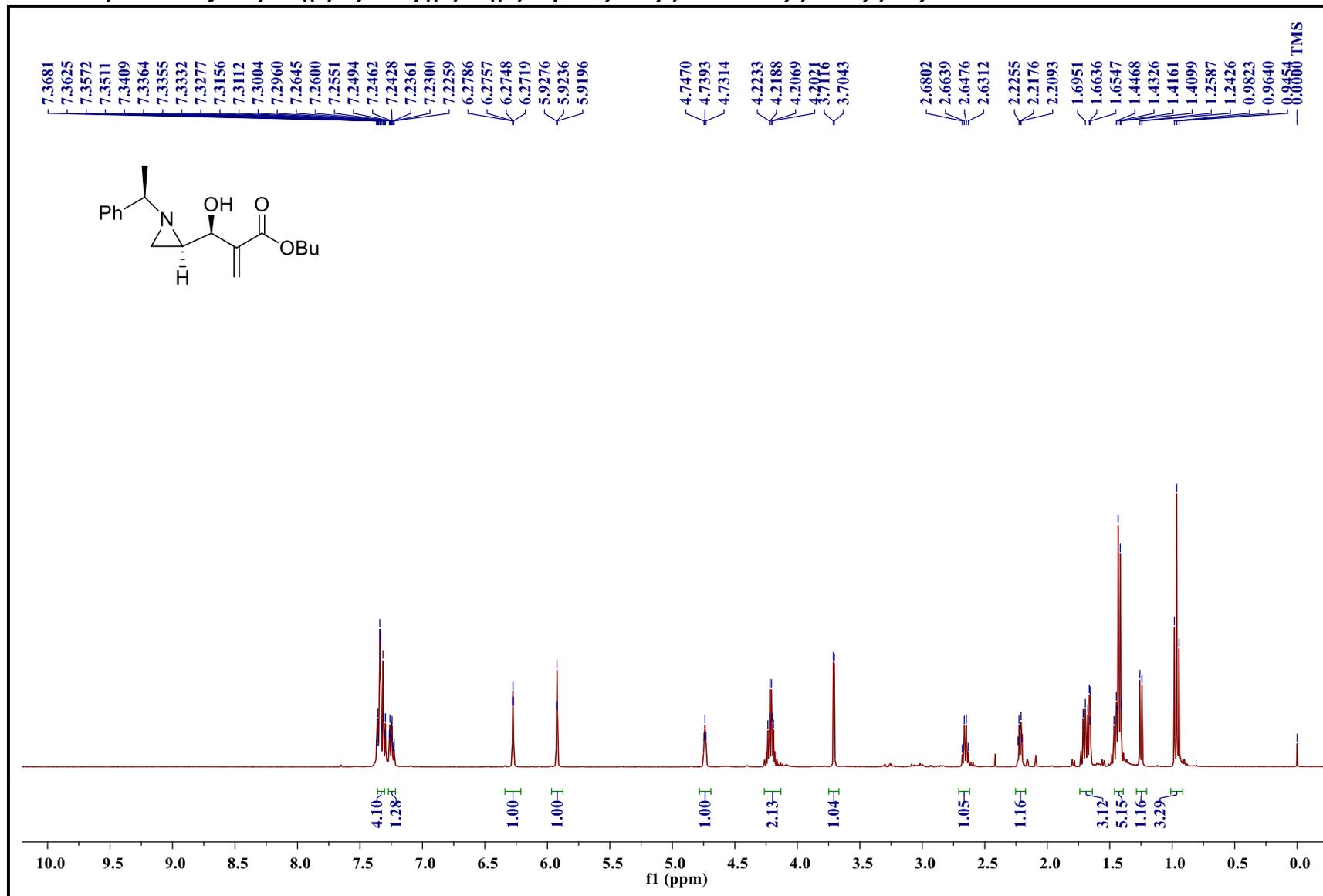
1H NMR spectrum of Butyl 2-((R)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate 6a:



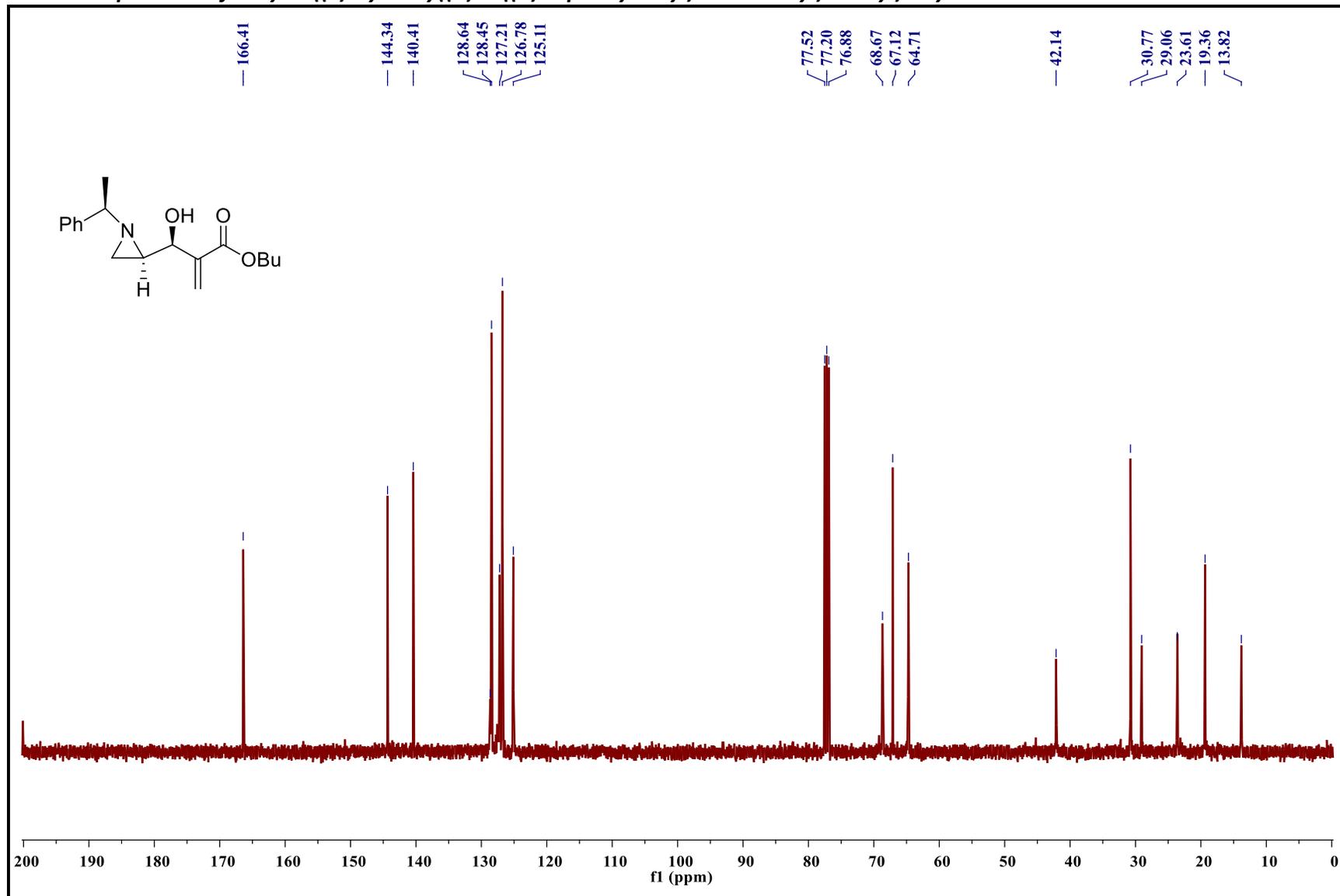
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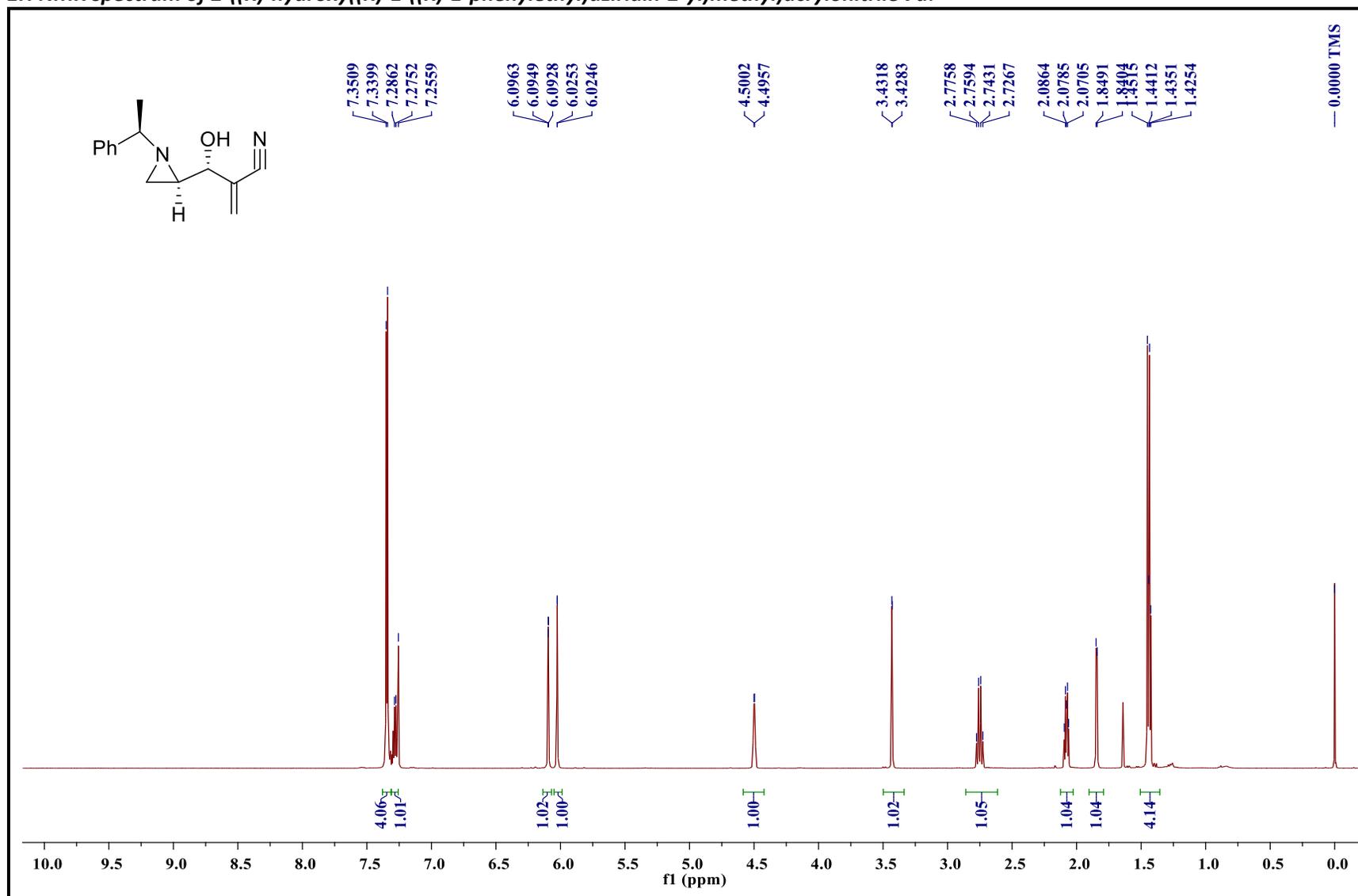
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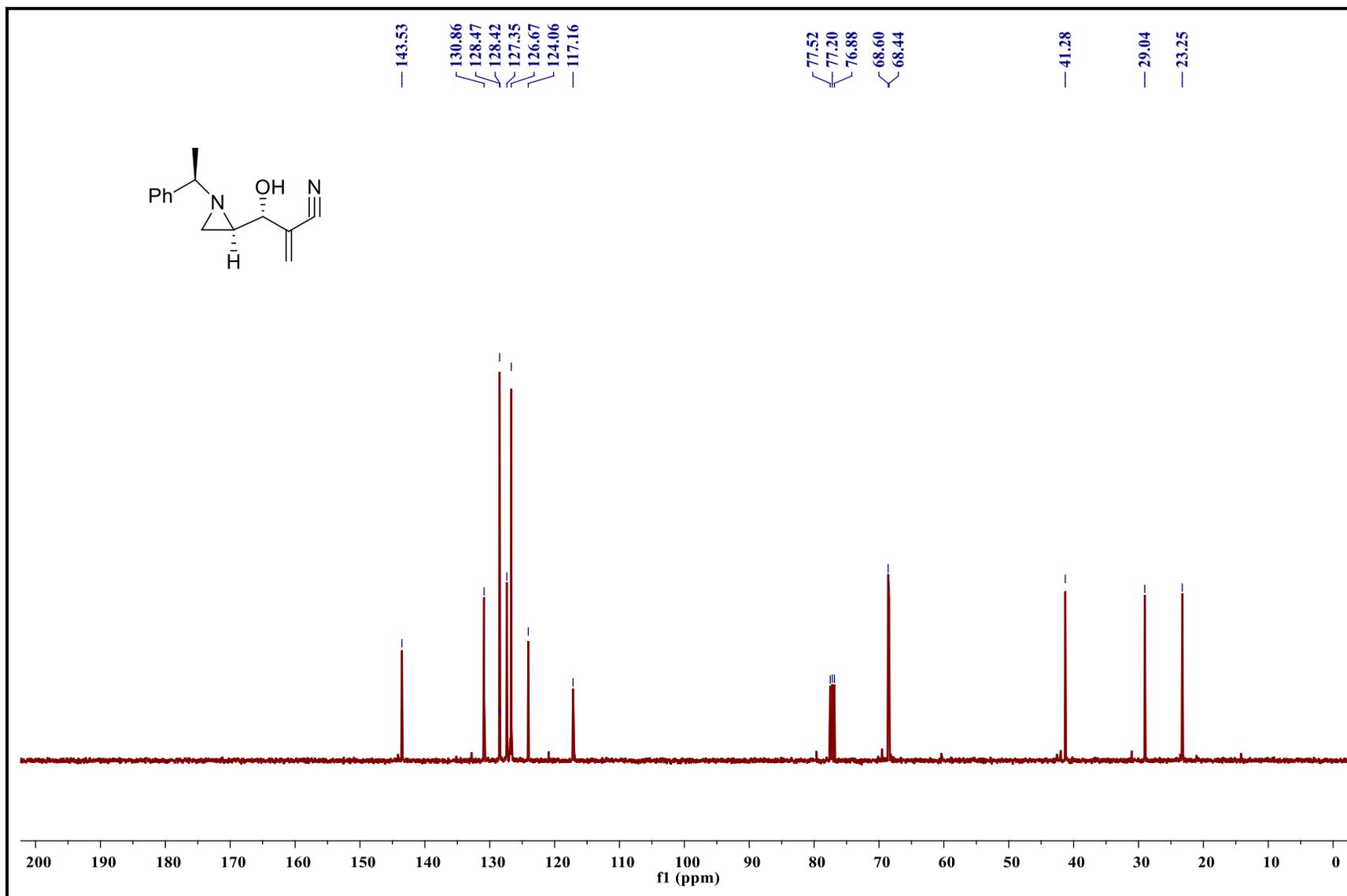
13C NMR spectrum of butyl 2-((S)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylate 6b:



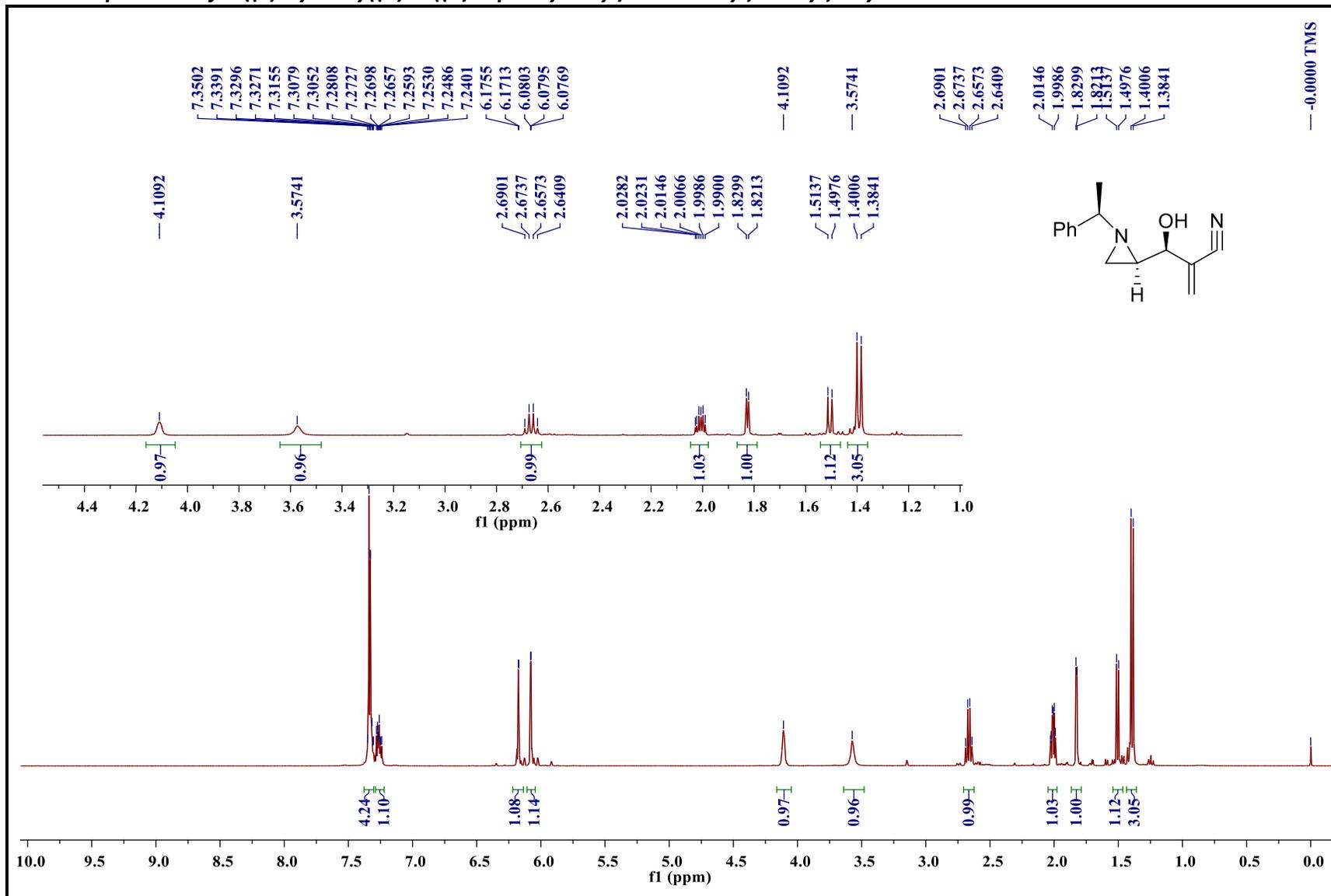
1H NMR spectrum of 2-((R)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylonitrile 7a:



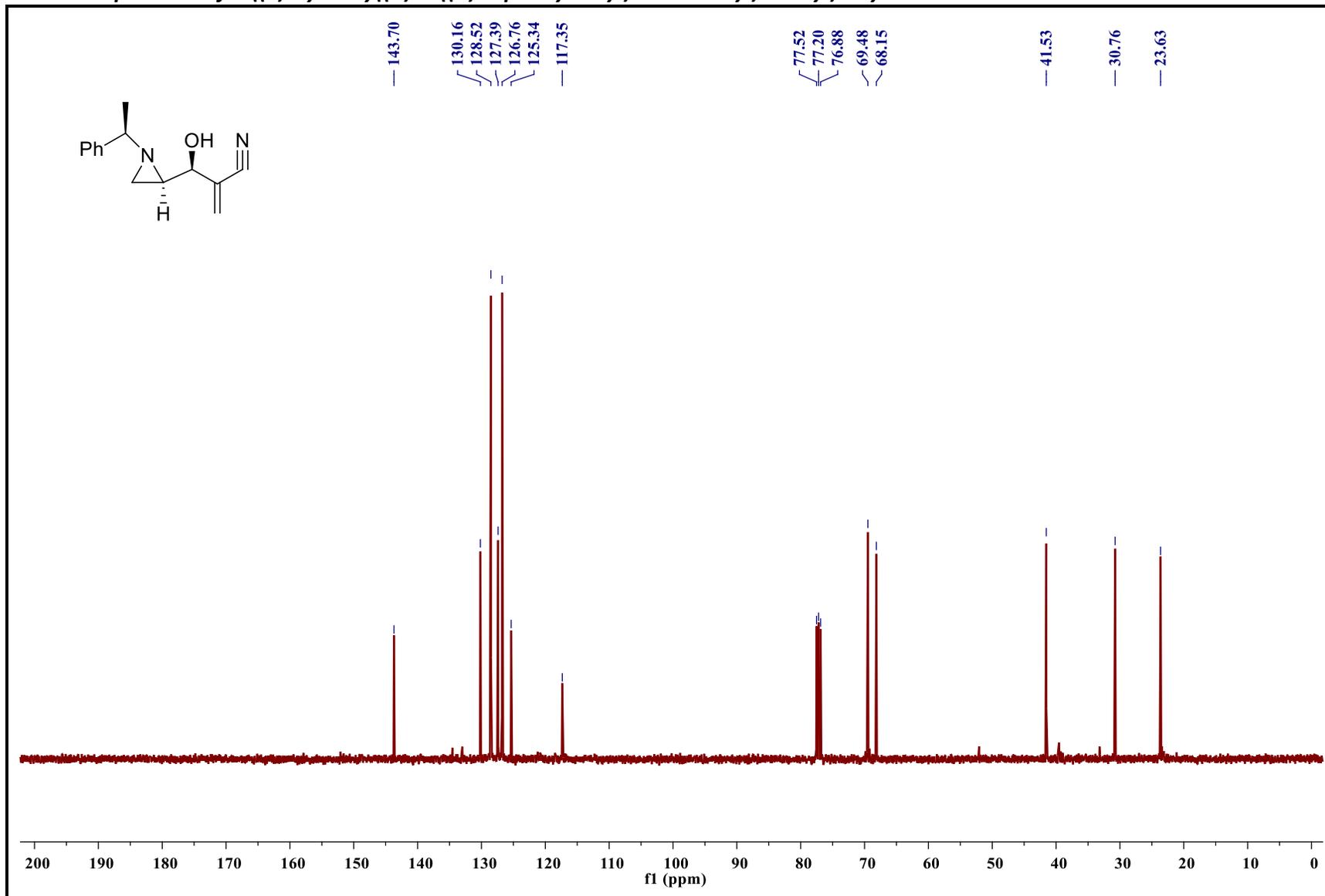
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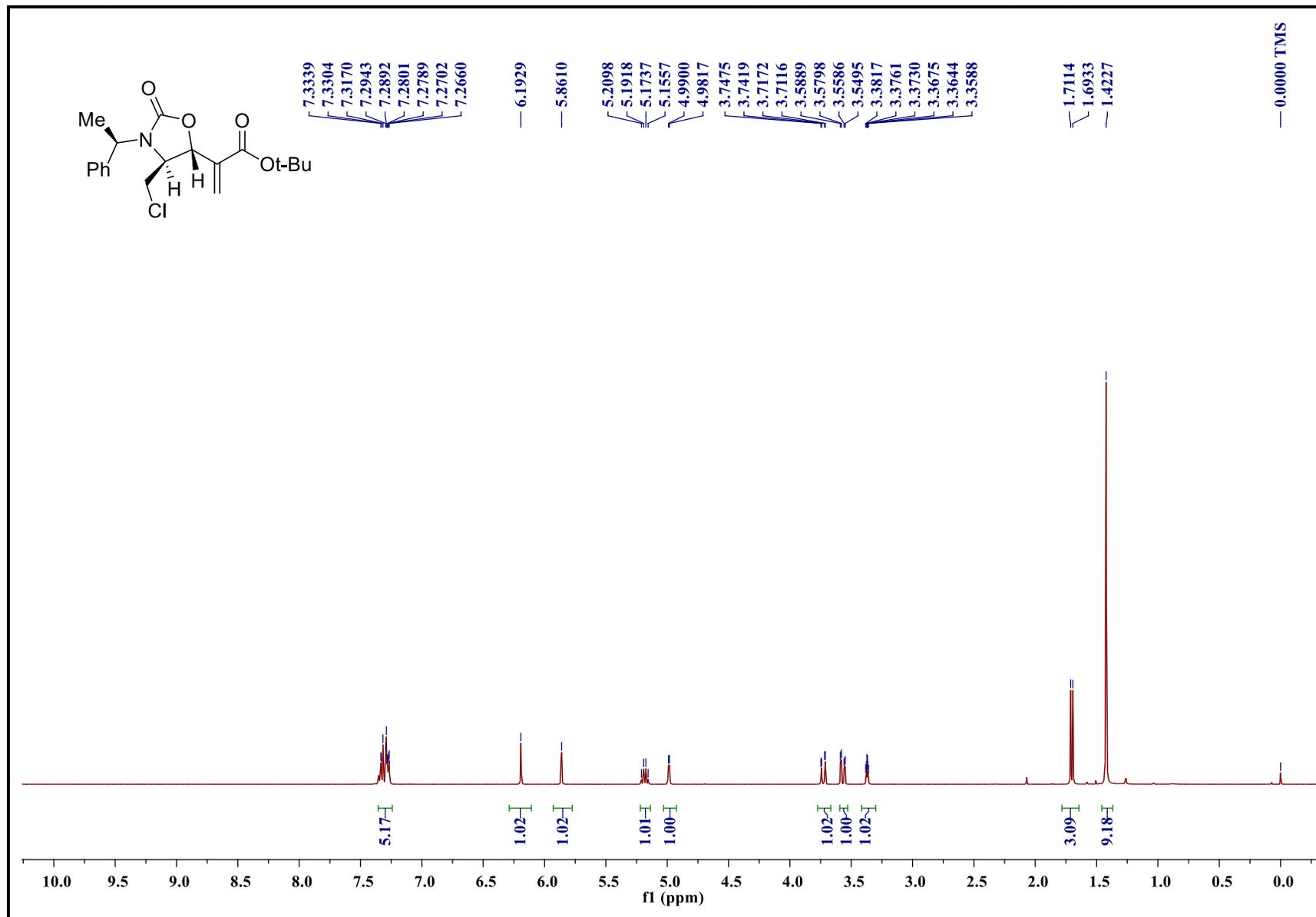
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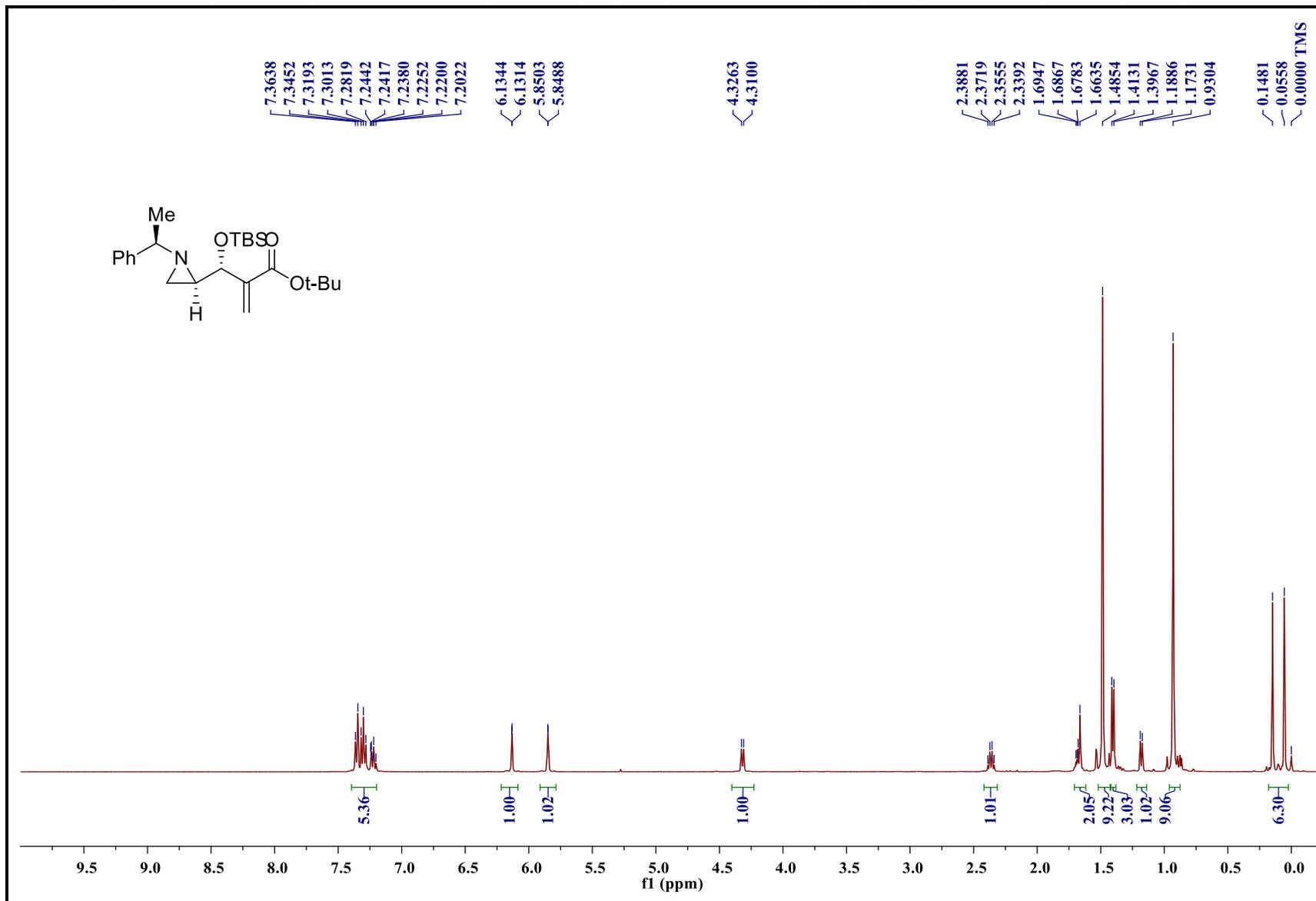
13C NMR spectrum of 2-((S)-hydroxy((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl)acrylonitrile 7b:



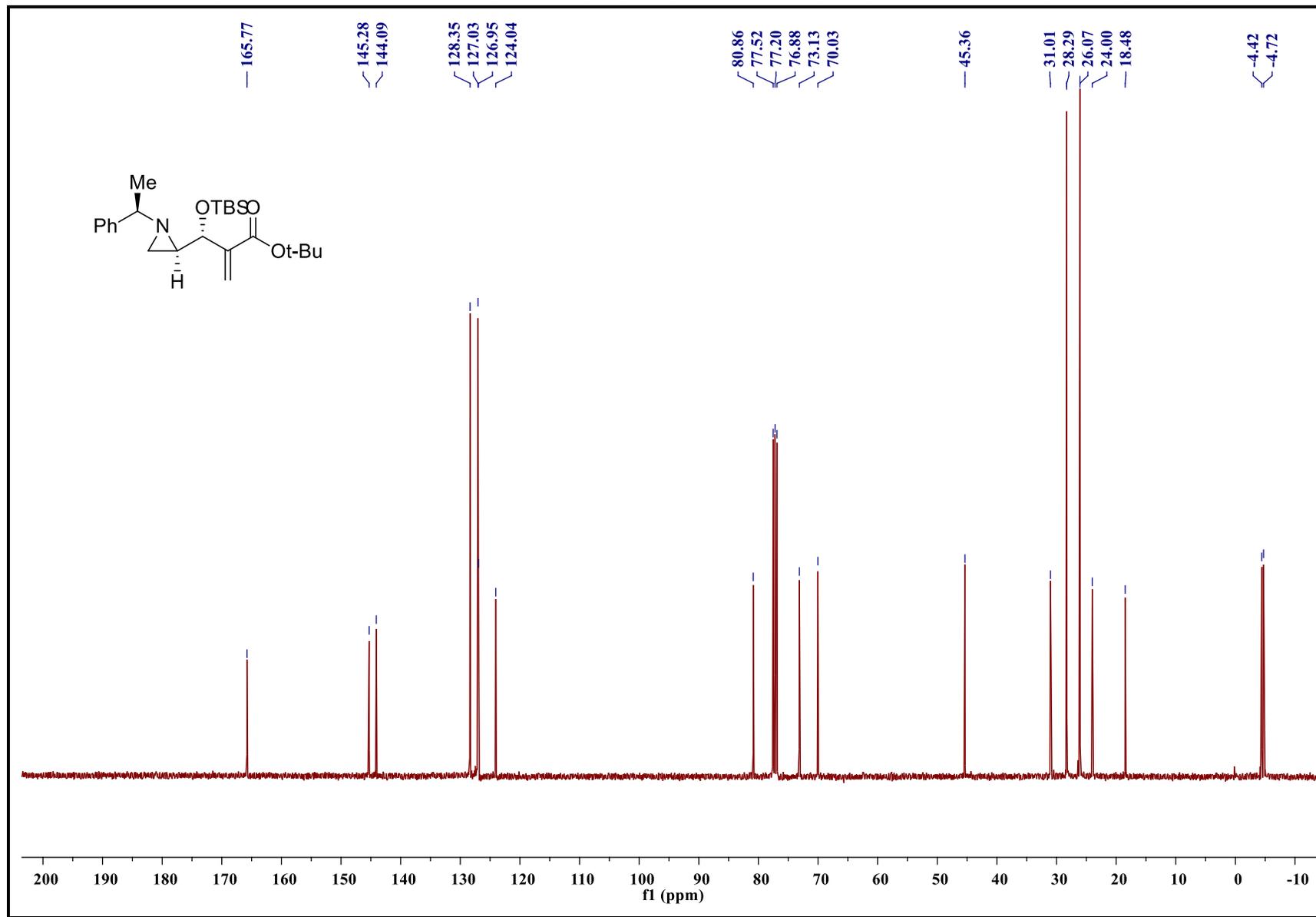
1H NMR spectrum of tert-butyl 2-((4S,5R)-4-(chloromethyl)-2-oxo-3-((R)-1-phenylethyl)oxazolidin-5-yl)acrylate 10:



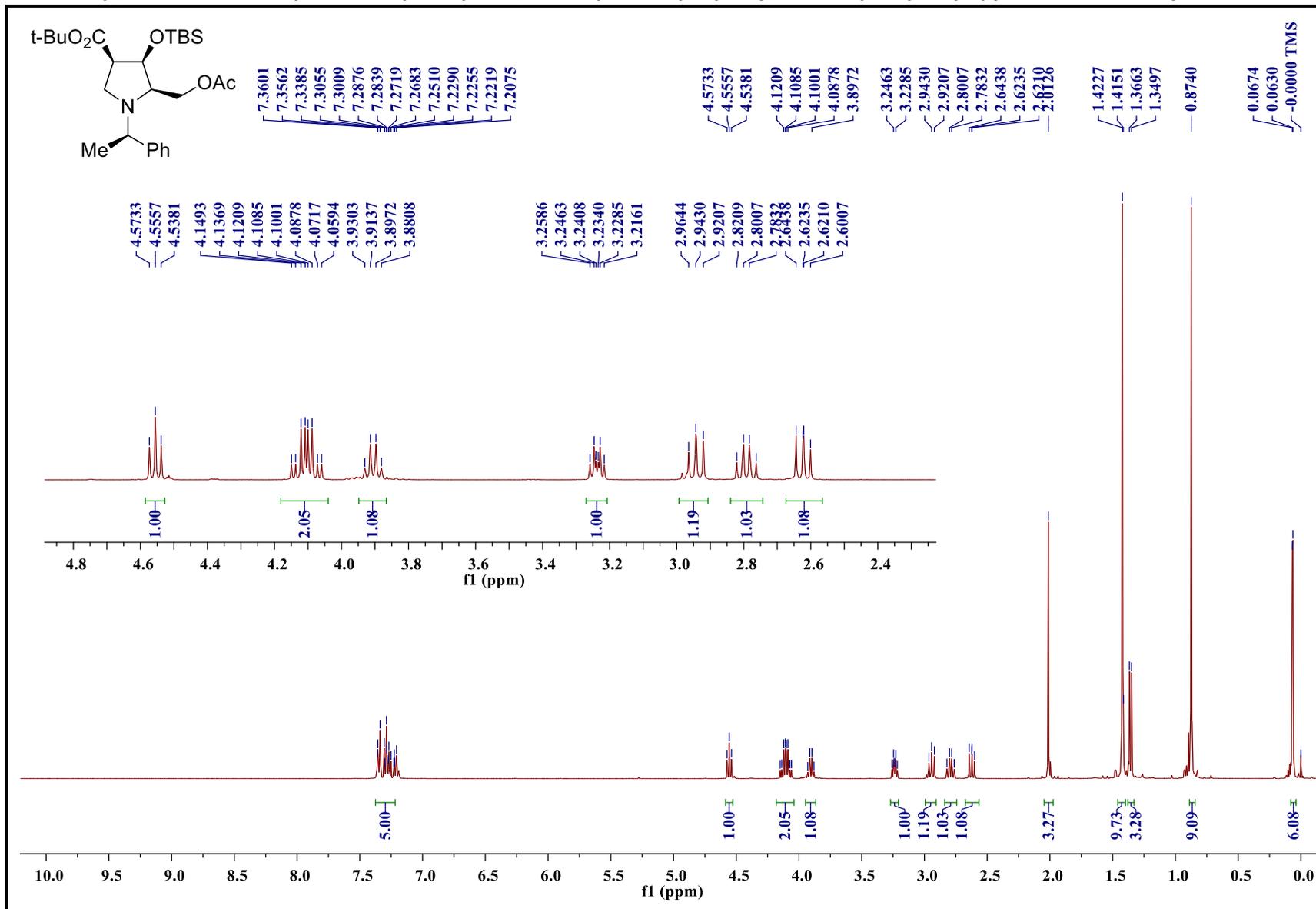
1H NMR spectrum of tert-butyl 2-((R)-((tert-butyldimethylsilyl)oxy)((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl) acrylate 11:



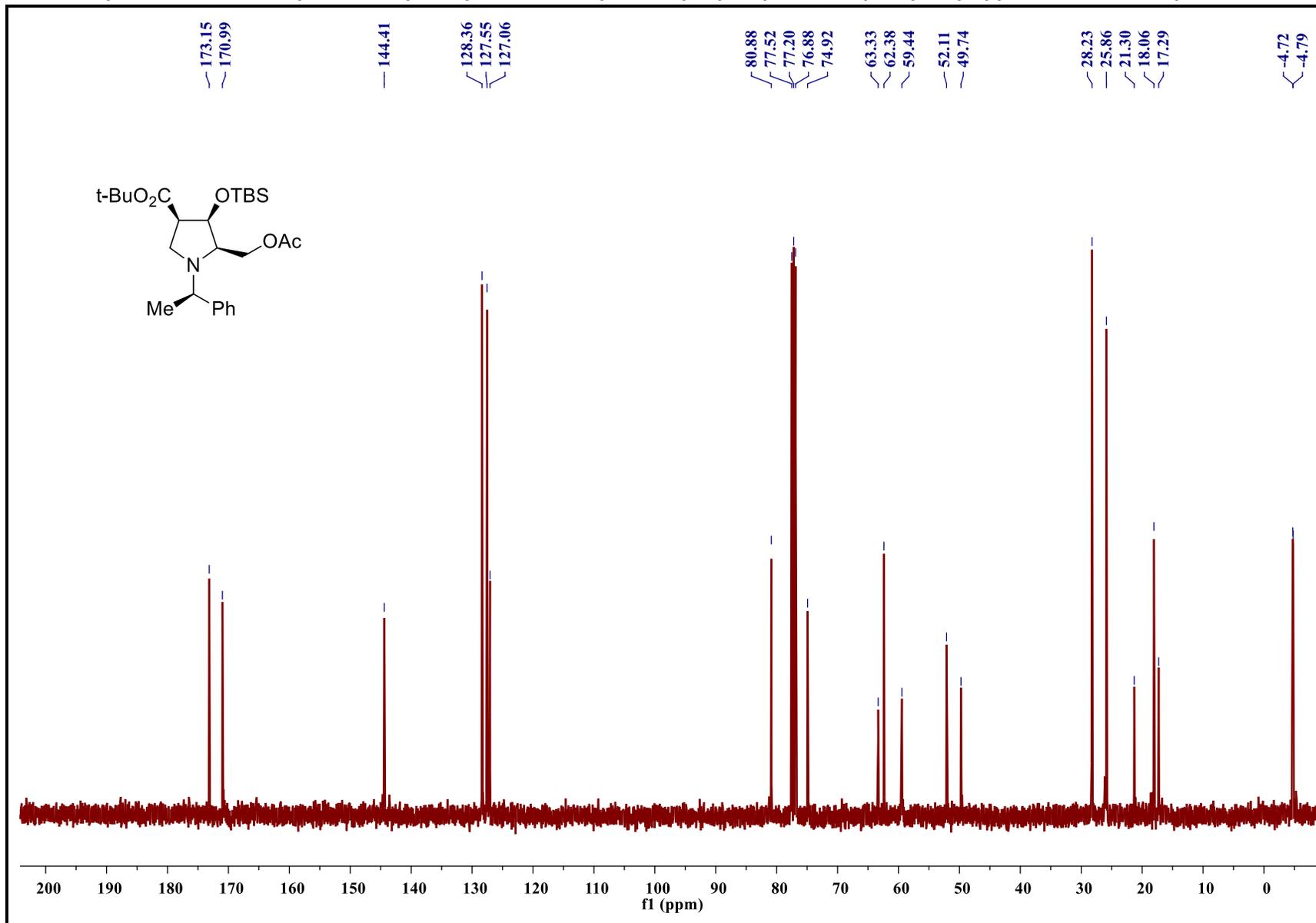
13C NMR spectrum of tert-butyl 2-((R)-((tert-butyldimethylsilyl)oxy)((R)-1-((R)-1-phenylethyl)aziridin-2-yl)methyl) acrylate 11:



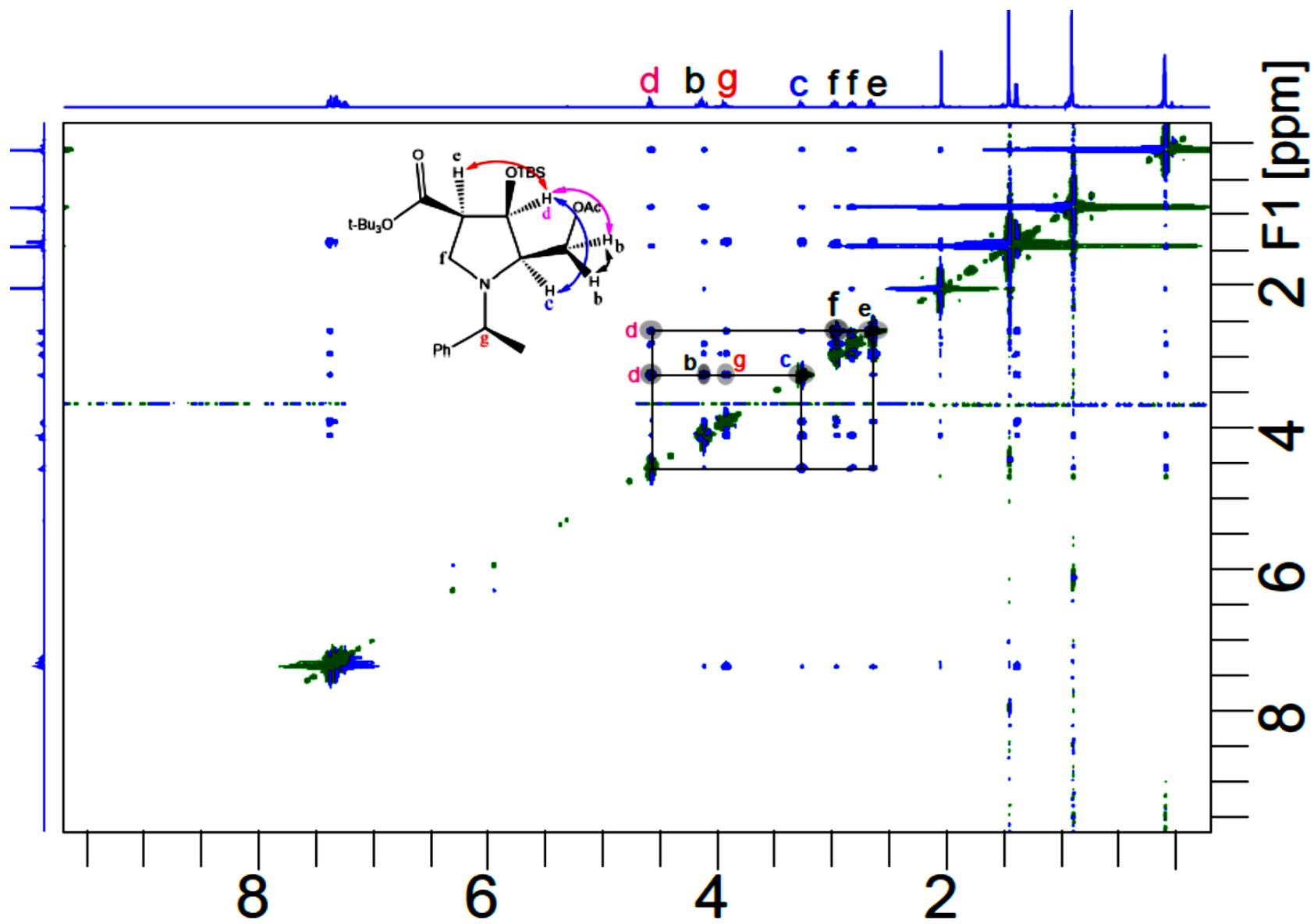
1H NMR of (3R,4R,5R)-tert-butyl 5-(acetoxymethyl)-4-((tert-butyldimethylsilyloxy)-1-((R)-1-phenylethyl) pyrrolidine-3-carboxylate 12:



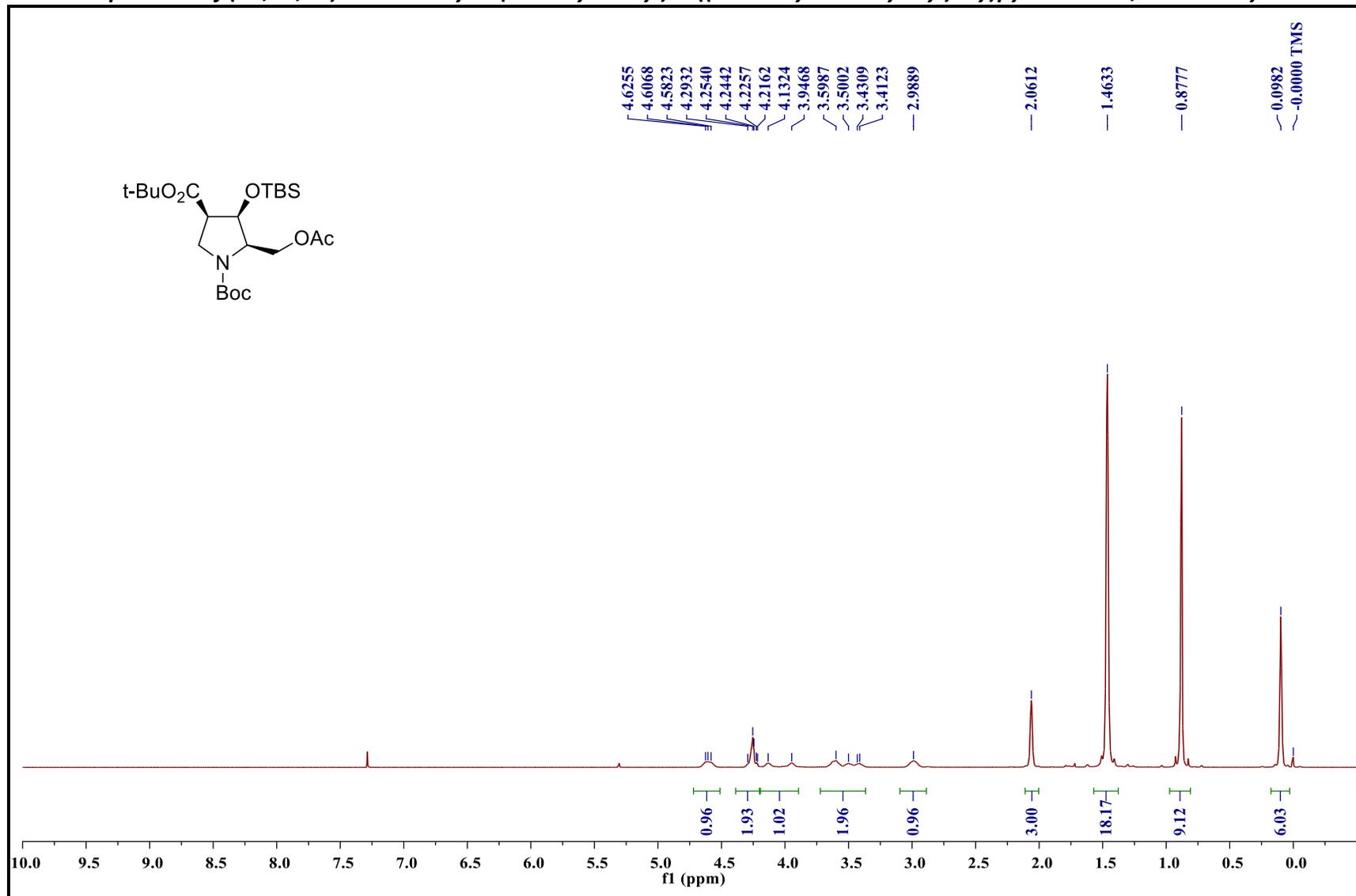
13C NMR of (3R,4R,5R)-tert-butyl 5-(acetoxymethyl)-4-((tert-butyldimethylsilyl)oxy)-1-((R)-1-phenylethyl) pyrrolidine-3-carboxylate 12:



NOESY NMR of (3R,4R,5R)-tert-butyl 5-(acetoxymethyl)-4-((tert-butyldimethylsilyl)oxy)-1-((R)-1-phenylethyl) pyrrolidine-3-carboxylate 12:



1H NMR spectrum of (3R,4R,5R)-di-tert-butyl 5-(acetoxymethyl)-4-((tert-butyl dimethylsilyl)oxy)pyrrolidine-1,3-dicarboxylate 13:



13C NMR spectrum of (3R,4R,5R)-di-tert-butyl 5-(acetoxymethyl)-4-((tert-butyldimethylsilyl)oxy)pyrrolidine-1,3-dicarboxylate 13:

