

Supporting Information

# Octahydroquinoxalin-2(1*H*)-One-Based Aminophosphonic Acids and Their Derivatives— Biological Activity Towards Cancer Cells

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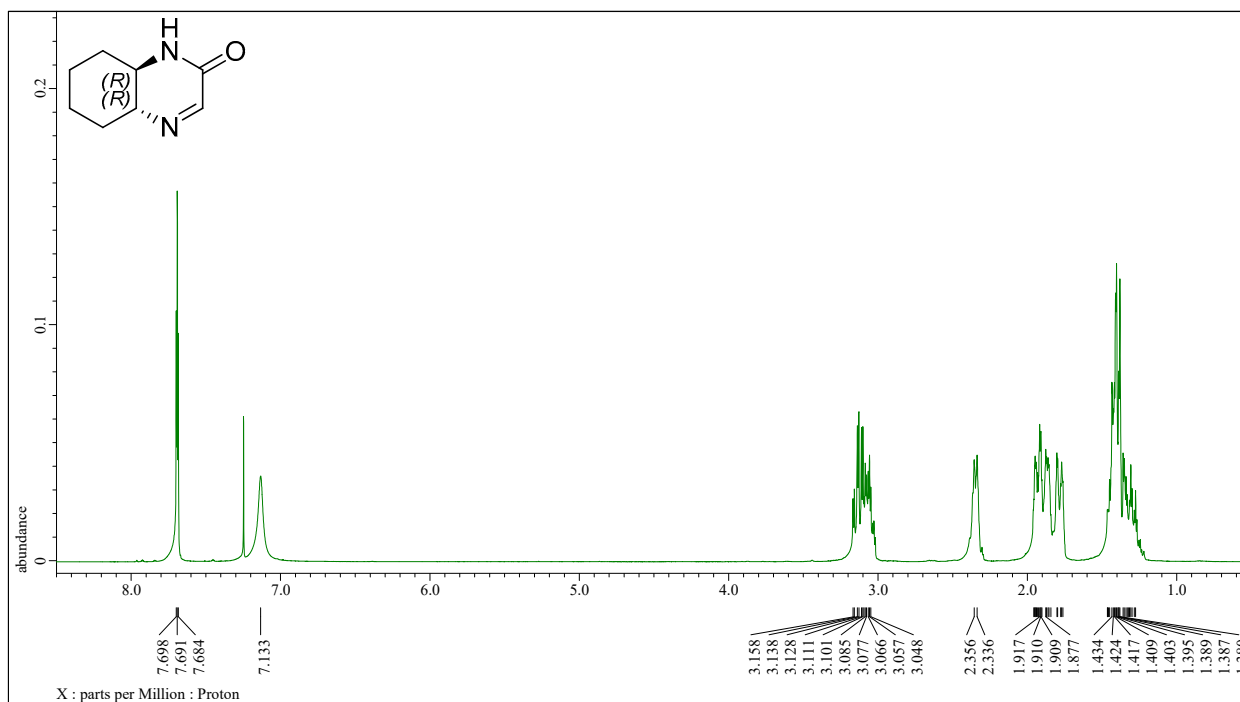
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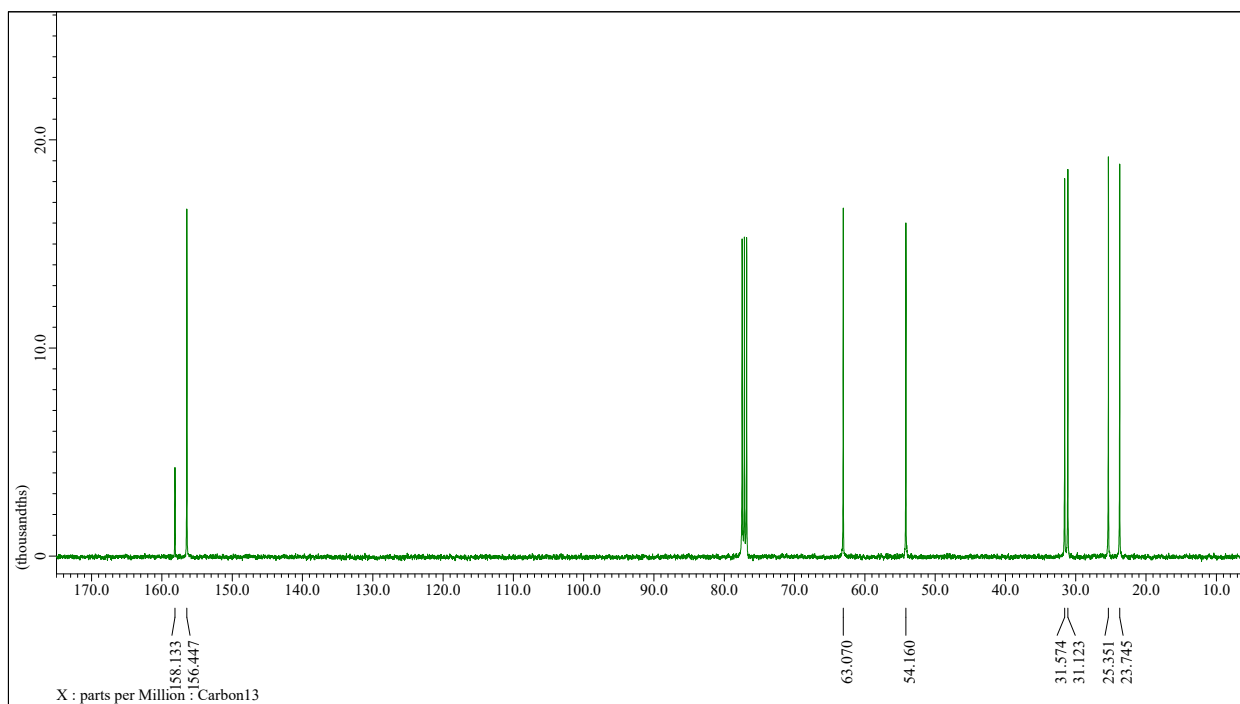
## Contents

1. NMR Spectra .....	2
<b>Figure S1.</b> (a) <sup>1</sup> H NMR and (b) <sup>13</sup> C NMR spectra of (1 <i>R</i> ,6 <i>R</i> )-3-oxo-2,5-diazabicyclo[4.4.0]dec-4-ene 1.....	2
<b>Figure S2.</b> (a) <sup>1</sup> H NMR, (b) <sup>13</sup> C NMR and (c) <sup>31</sup> P NMR spectra of dimethyl-[(1 <i>R</i> ,6 <i>R</i> )-3-oxo-2,5-diazabicyclo[4.4.0]dec-4-yl]phosphonate 2a.....	4
<b>Figure S3.</b> (a) <sup>1</sup> H NMR, (b) <sup>13</sup> C NMR and (c) <sup>31</sup> P NMR spectra of diphenyl-[(1 <i>R</i> ,6 <i>R</i> )-3-oxo-2,5-diazabicyclo[4.4.0]dec-4-yl]phosphonate 2b.....	5
<b>Figure S4.</b> (a) <sup>1</sup> H NMR, (b) <sup>13</sup> C NMR and (c) <sup>31</sup> P NMR spectra of dibenzyl-[(1 <i>R</i> ,6 <i>R</i> )-3-oxo-2,5-diazabicyclo[4.4.0]dec-4-yl]phosphonate 2c.....	7
<b>Figure S5.</b> (a) <sup>1</sup> H NMR, (b) <sup>13</sup> C NMR and (c) <sup>31</sup> P NMR spectra of ethyl-[(1 <i>R</i> ,6 <i>R</i> )-3-oxo-2,5-diazabicyclo[4.4.0]dec-4-yl](phenyl)phosphinate 2d.....	8
<b>Figure S6.</b> (a) <sup>1</sup> H NMR, (b) <sup>13</sup> C NMR and (c) <sup>31</sup> P NMR spectra of (1 <i>R</i> ,6 <i>R</i> )-3-oxo-4-(diphenylphosphoryl)-2,5-diazabicyclo[4.4.0]decan 2e.....	10
<b>Figure S7.</b> (a) <sup>1</sup> H NMR, (b) <sup>13</sup> C NMR and (c) <sup>31</sup> P NMR spectra of 4-((3 <i>aR</i> ,8 <i>aR</i> )-2,2-dimethyl-6-oxido-4,4,8,8-tetraphenyltetrahydro-[1,3]dioxolo[4,5- <i>e</i> ][1,3,2]dioxaphosphepin-6-yl)-(1 <i>R</i> ,6 <i>R</i> )-3-oxo-2,5-diazabicyclo[4.4.0]decan 2f.....	11
<b>Figure S8.</b> (a) <sup>1</sup> H NMR, (b) <sup>13</sup> C NMR and (c) <sup>31</sup> P NMR spectra of 4-((3 <i>aR</i> ,8 <i>aR</i> )-2,2-dimethyl-6-oxido-4,4,8,8-tetraphenyltetrahydro-[1,3]dioxolo[4,5- <i>e</i> ][1,3,2]dioxaphosphepin-6-yl)-(1 <i>R</i> ,6 <i>R</i> )-3-oxo-2,5-diazabicyclo[4.4.0]decan 2g.....	13
<b>Figure S9.</b> (a) <sup>1</sup> H NMR, (b) <sup>13</sup> C NMR and (c) <sup>31</sup> P NMR spectra of [(1 <i>R</i> ,6 <i>R</i> )-3-oxo-2,5-diazabicyclo[4.4.0]dec-4-yl]-phosphonic acid 3a.....	14
<b>Figure S10.</b> (a) <sup>1</sup> H NMR, (b) <sup>13</sup> C NMR and (c) <sup>31</sup> P NMR spectra of [4-phenyl-(1 <i>R</i> ,6 <i>R</i> )-3-oxo-2,5-diazabicyclo[4.4.0]dec-4-yl]-phosphonic acid 3b.....	16

## 1. NMR Spectra

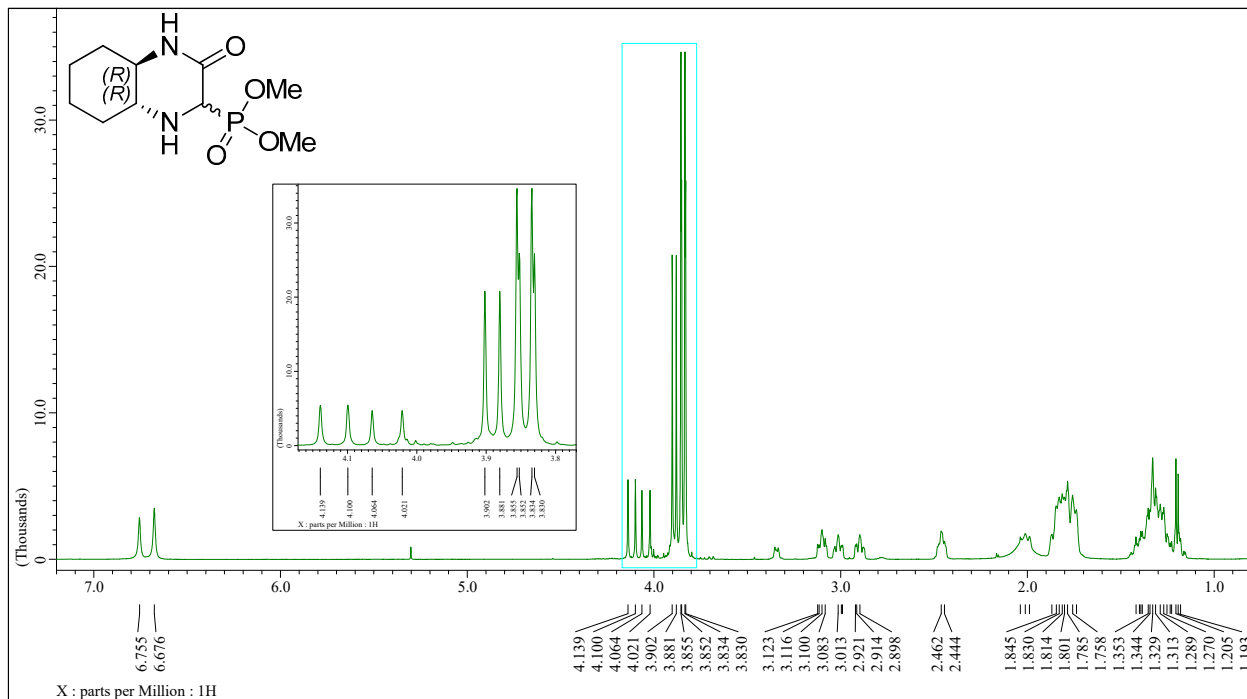


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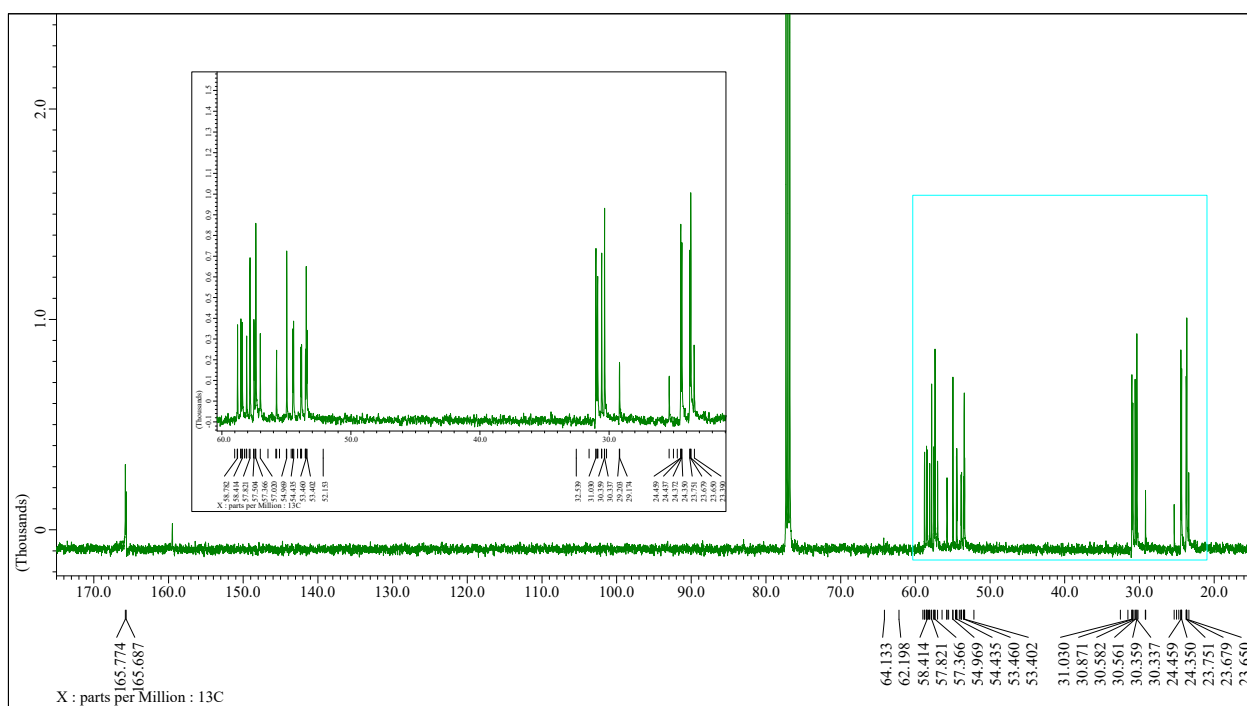


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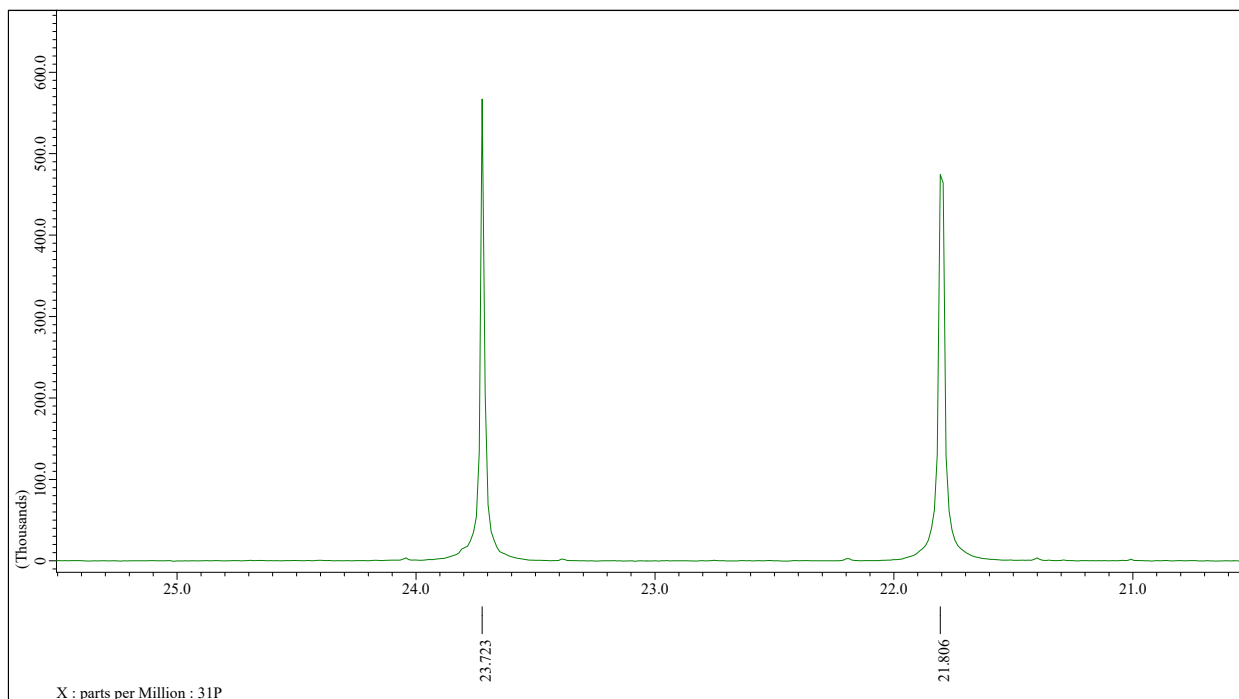
Figure S1. (a)  $^1\text{H}$  NMR and (b)  $^{13}\text{C}$  NMR spectra of (1*R*,6*R*)-3-oxo-2,5-diazabicyclo[4.4.0]dec-4-ene 1.



(a)

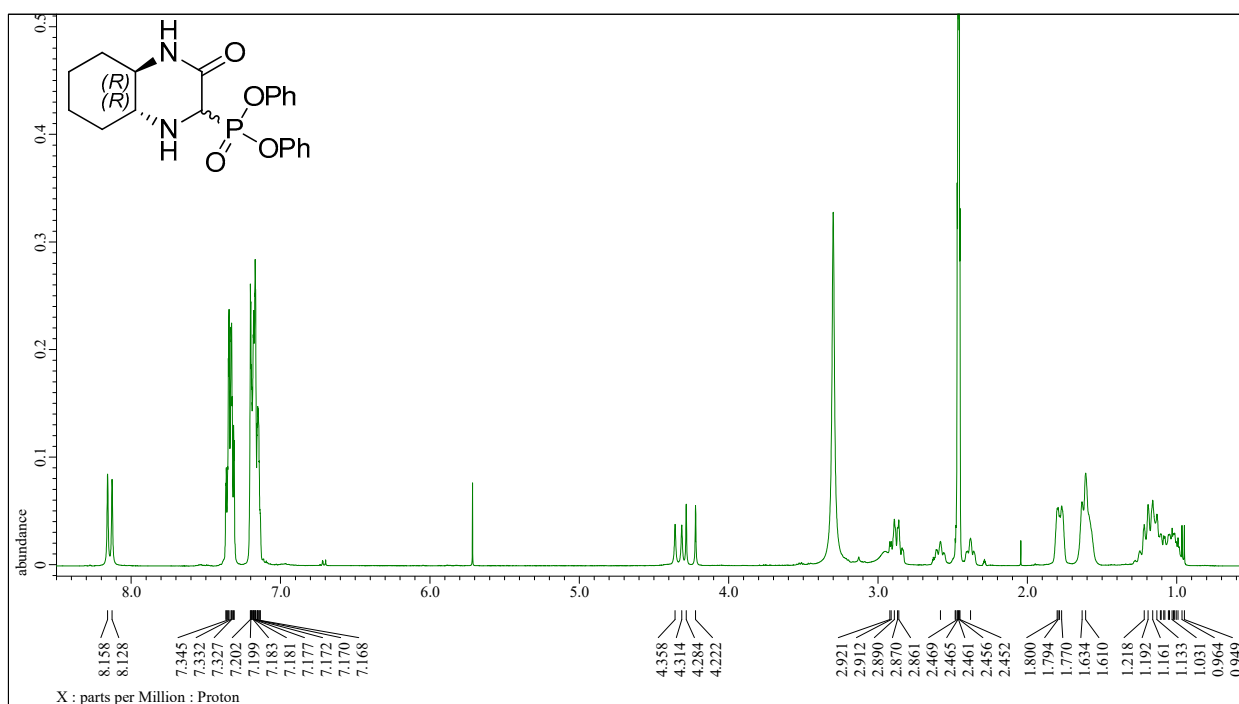


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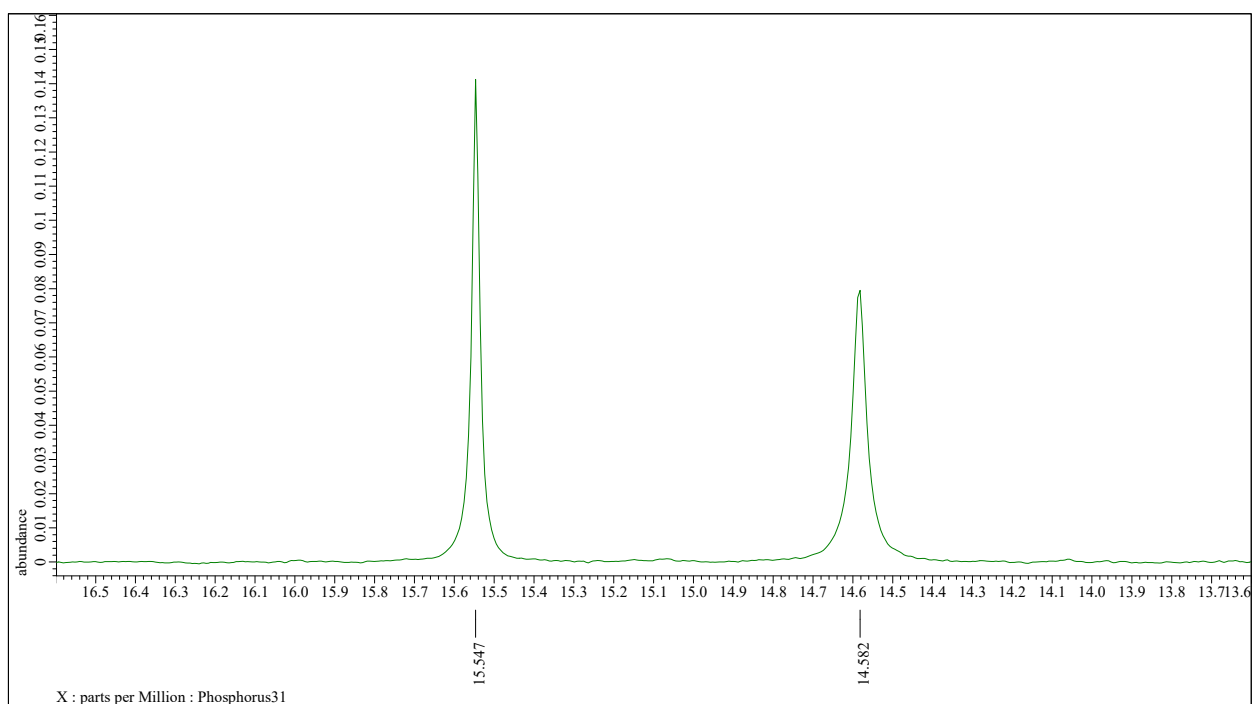
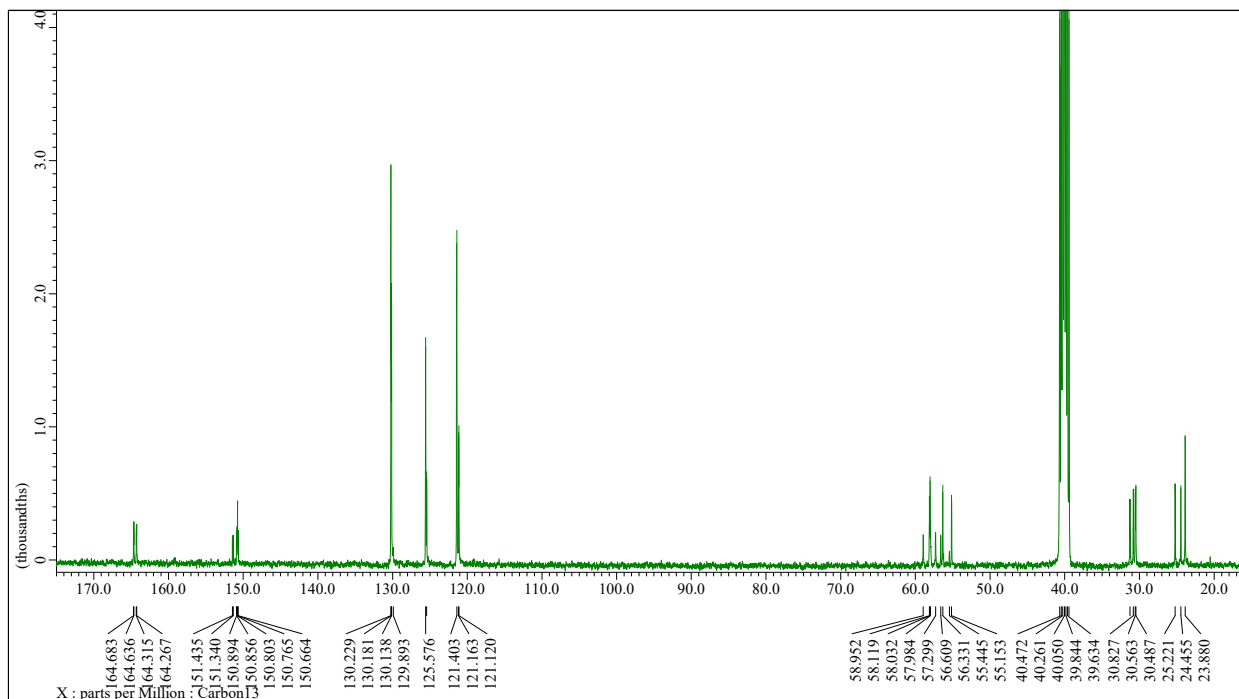


(c)

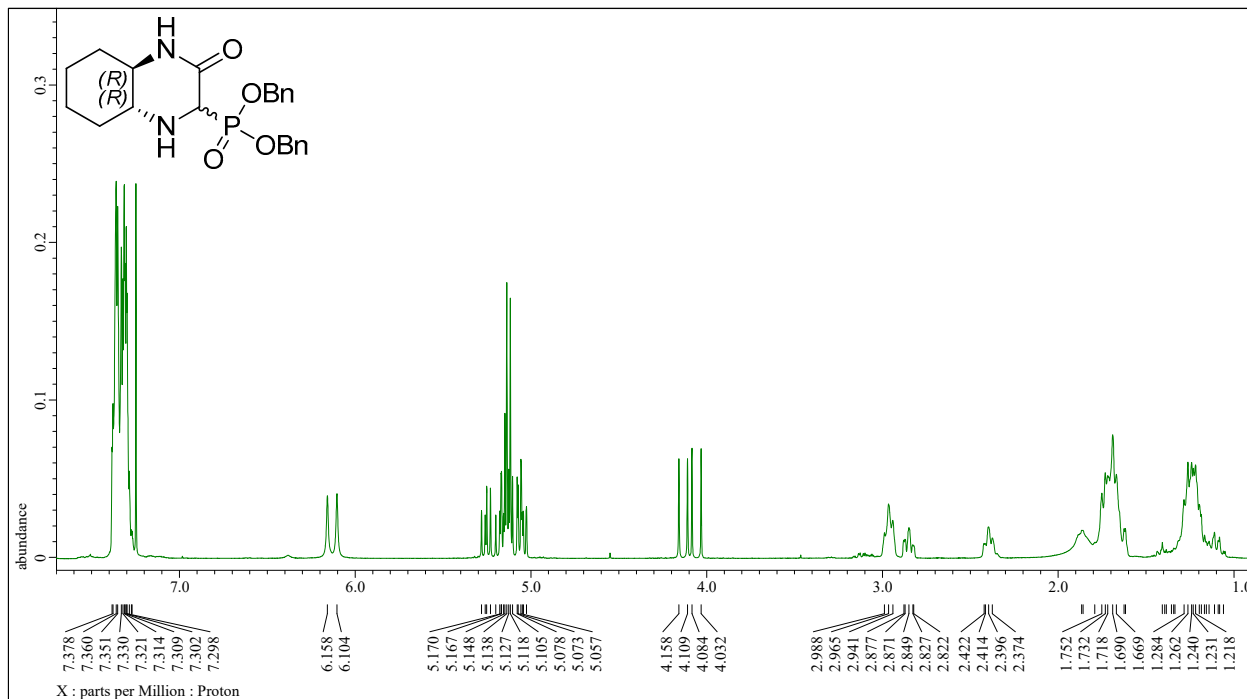
**Figure S2.** (a)  $^1\text{H}$  NMR, (b)  $^{13}\text{C}$  NMR and (c)  $^{31}\text{P}$  NMR spectra of dimethyl-[(1*R*,6*R*)-3-oxo-2,5-diazabicyclo[4.4.0]dec-4-yl]phosphonate 2a.



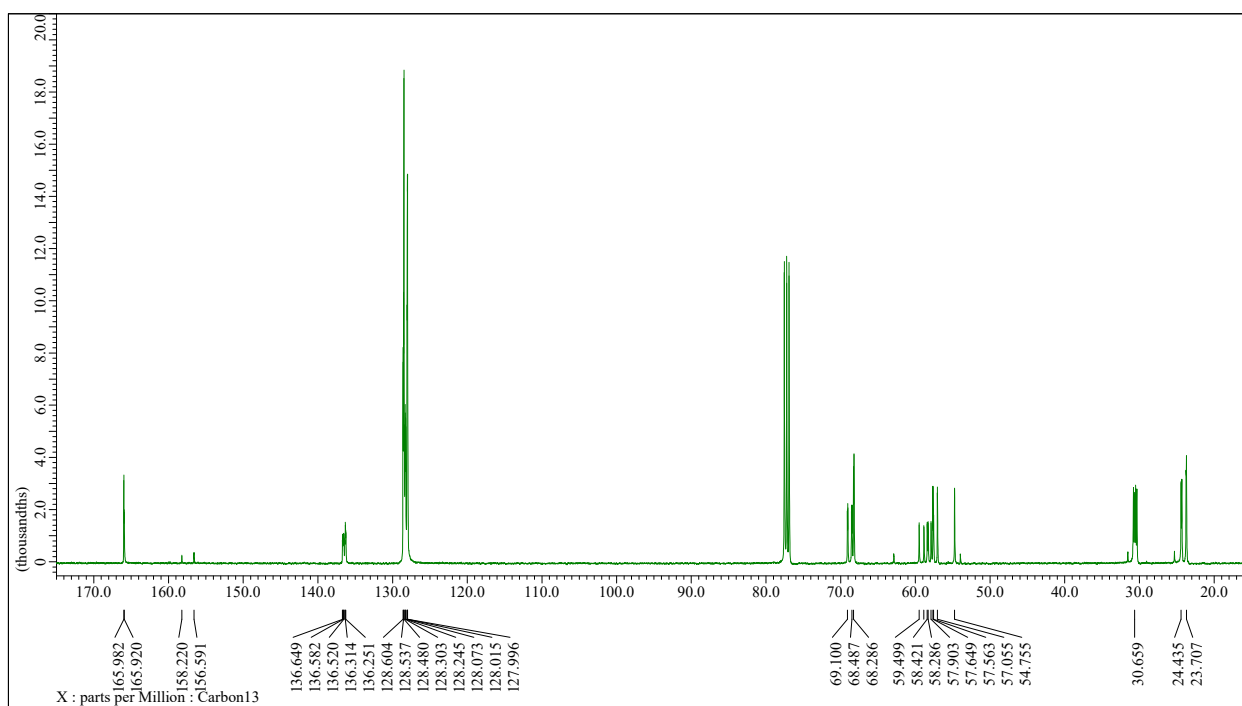
(a)



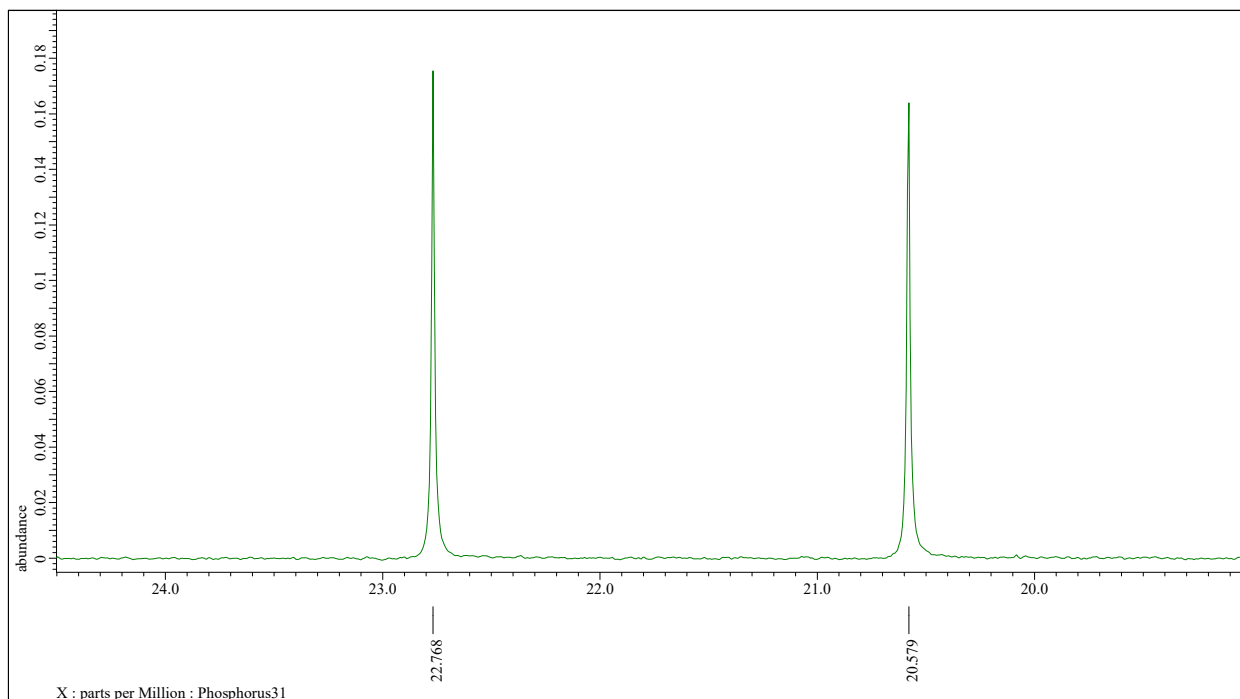
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(a)

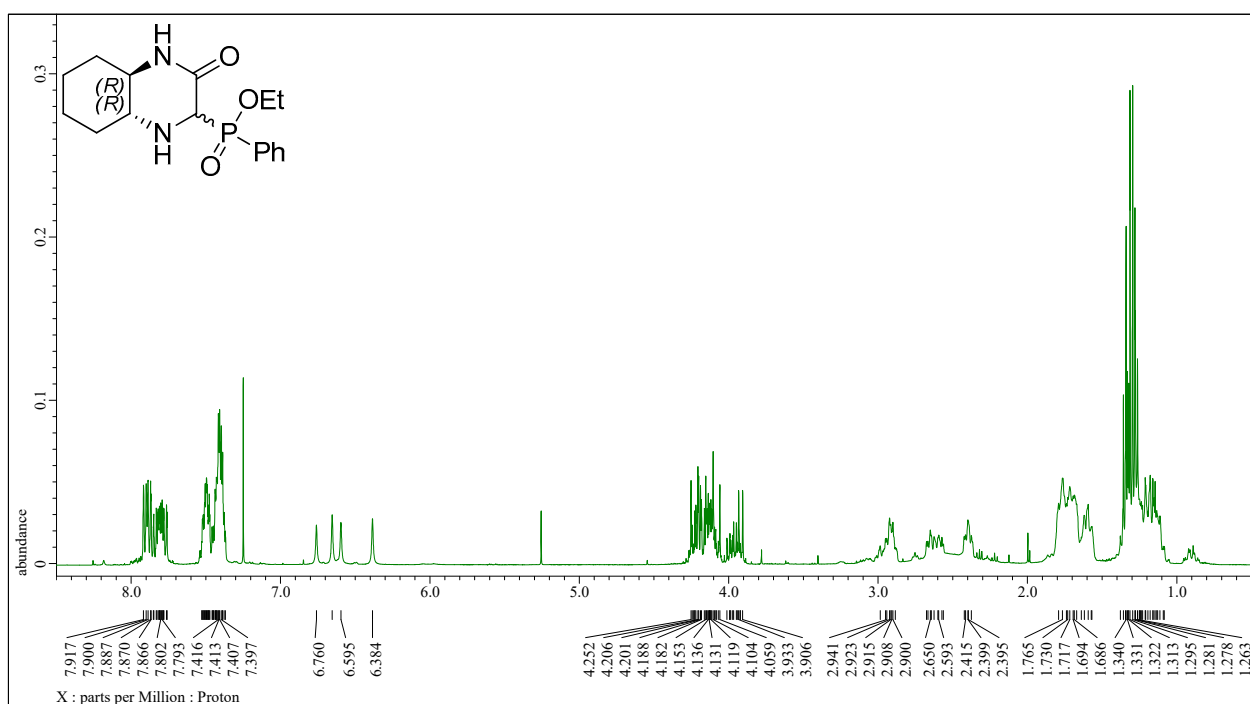


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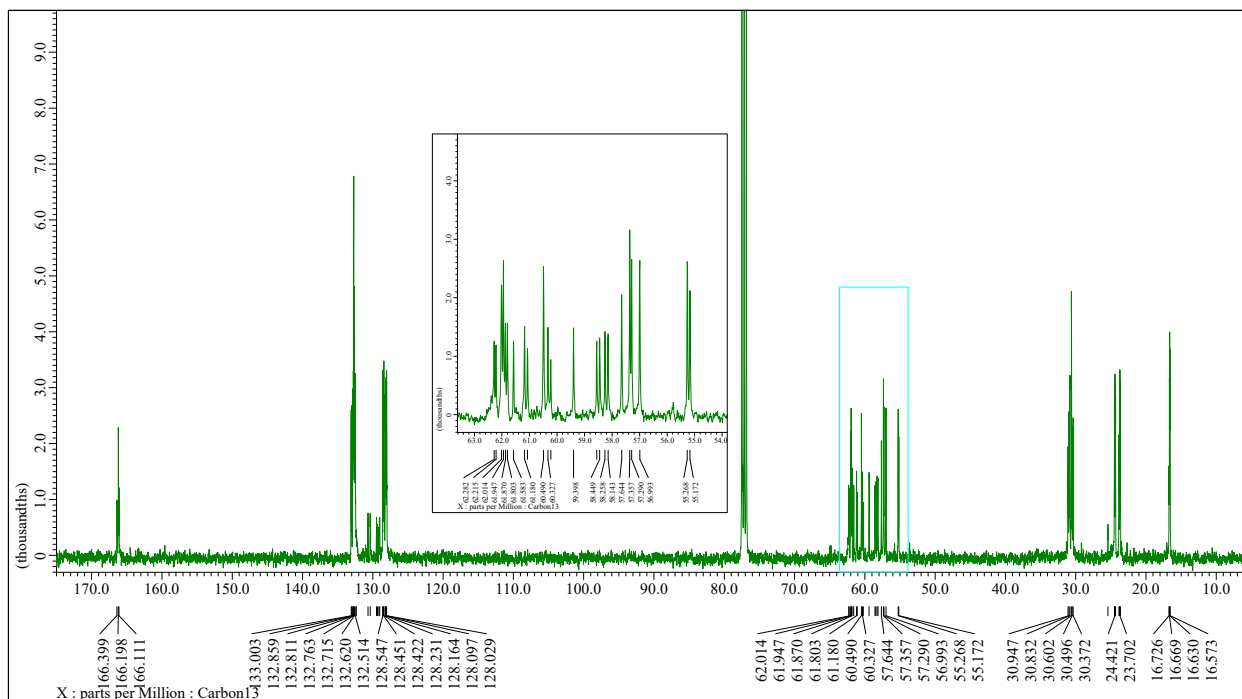


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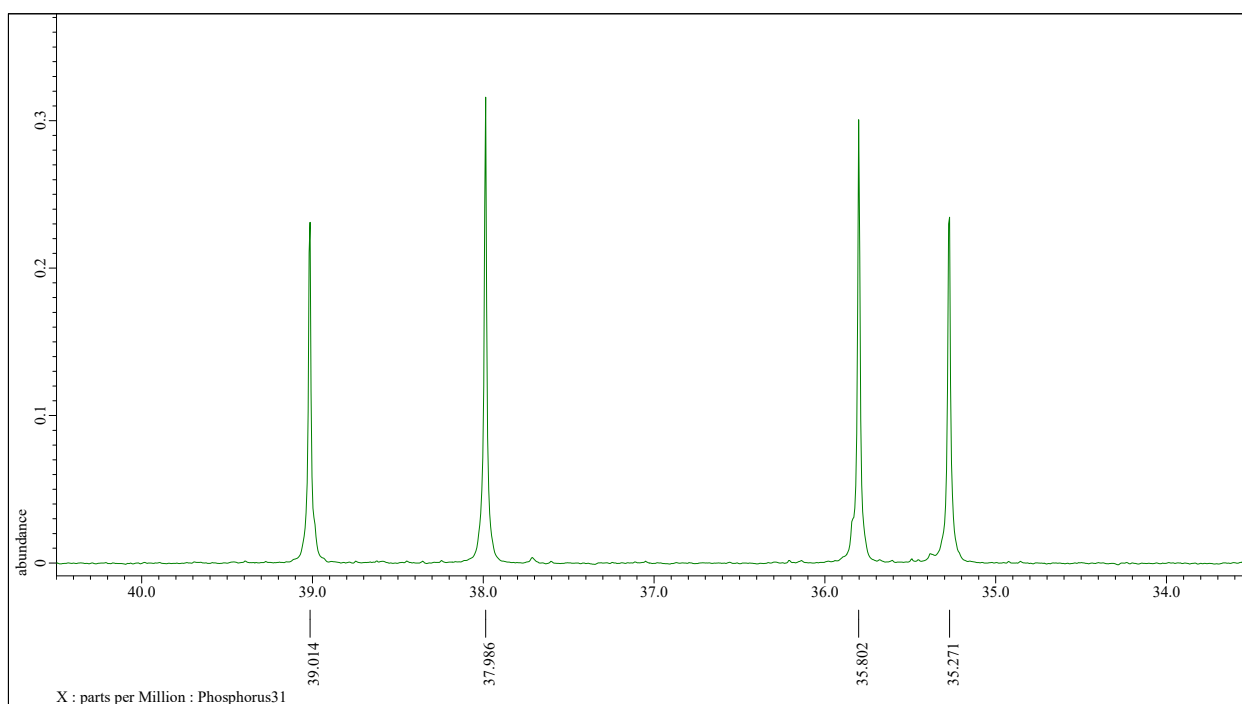
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(a)



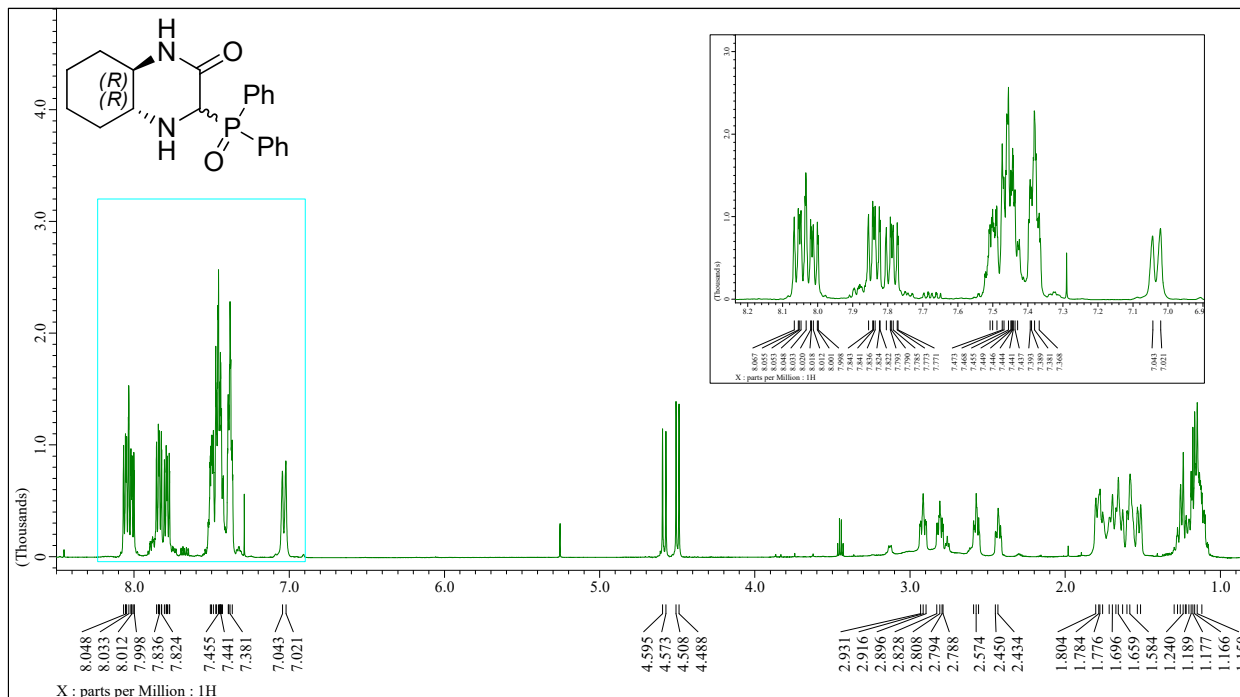
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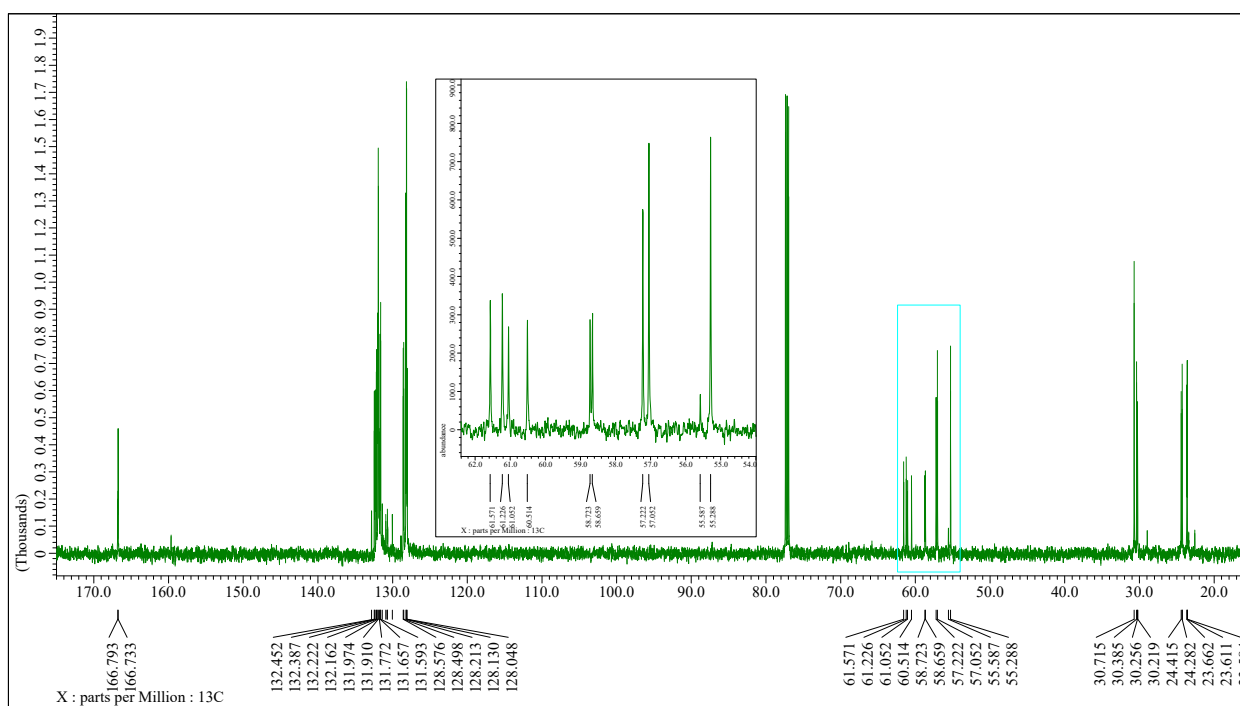
(c)

**Figure S5.** (a)  $^1\text{H}$  NMR, (b)  $^{13}\text{C}$  NMR and (c)  $^{31}\text{P}$  NMR spectra of ethyl-[(1R,6R)-3-oxo-2,5-diazabicyclo[4.4.0]dec-4-yl](phenyl)phosphinate 2d.

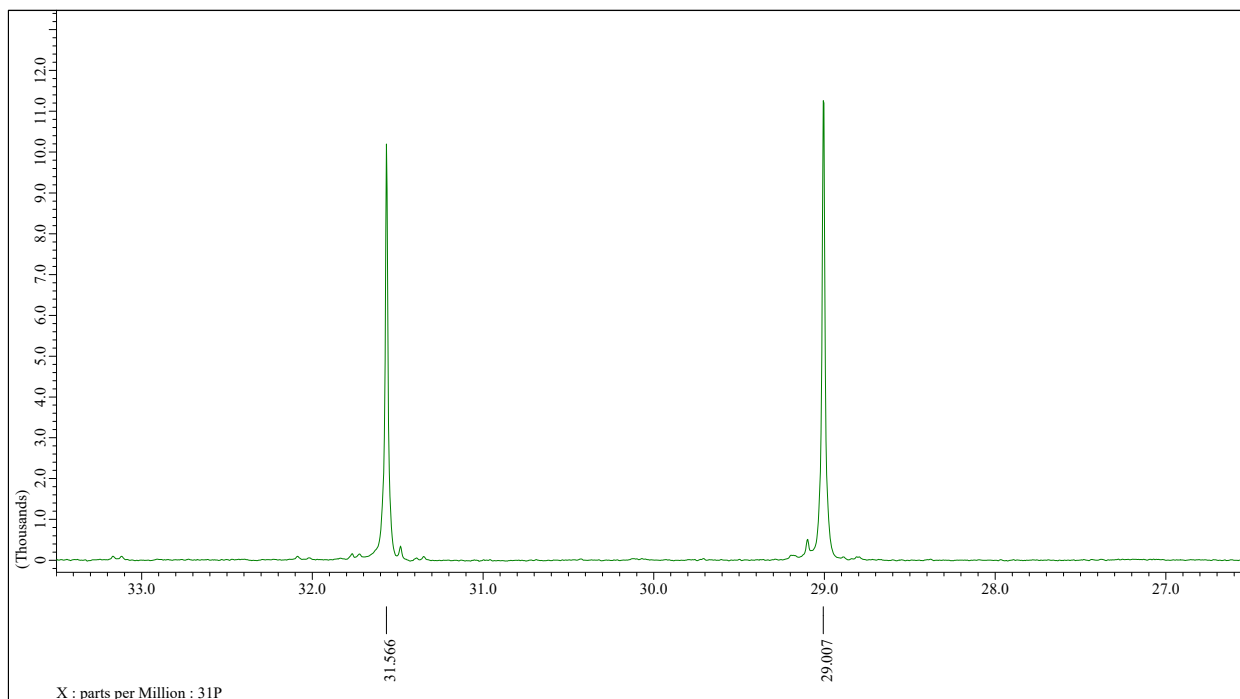




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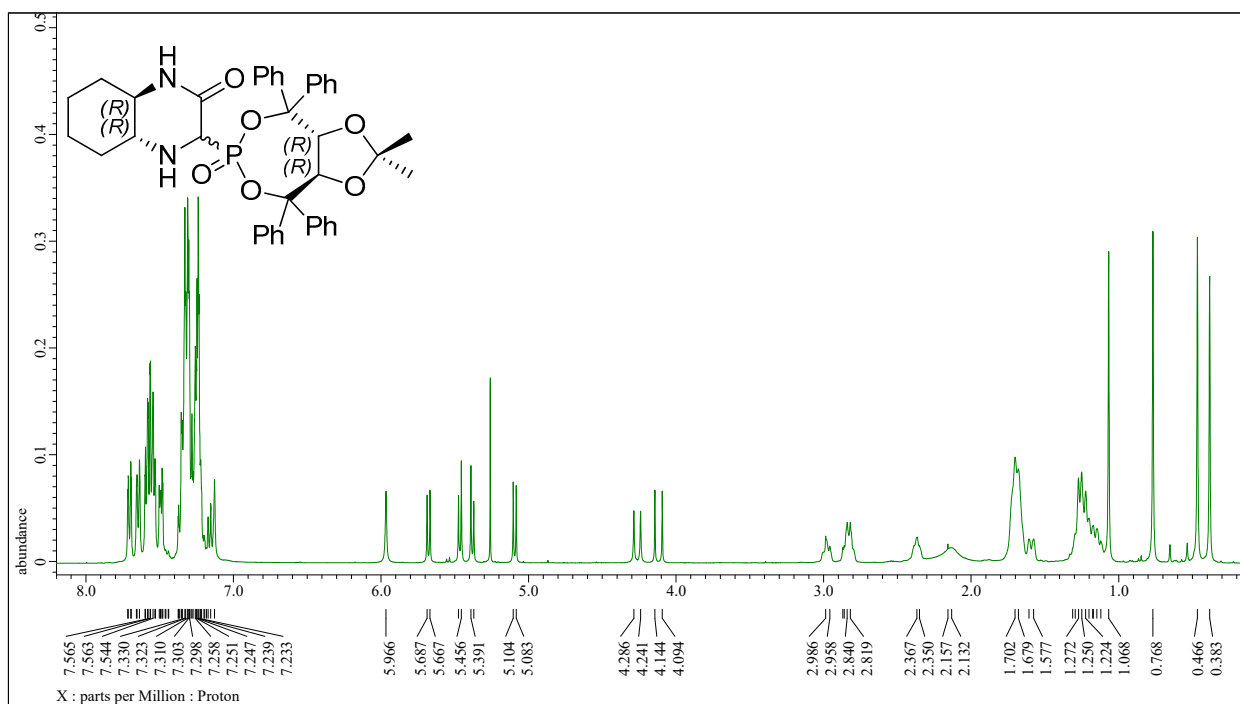


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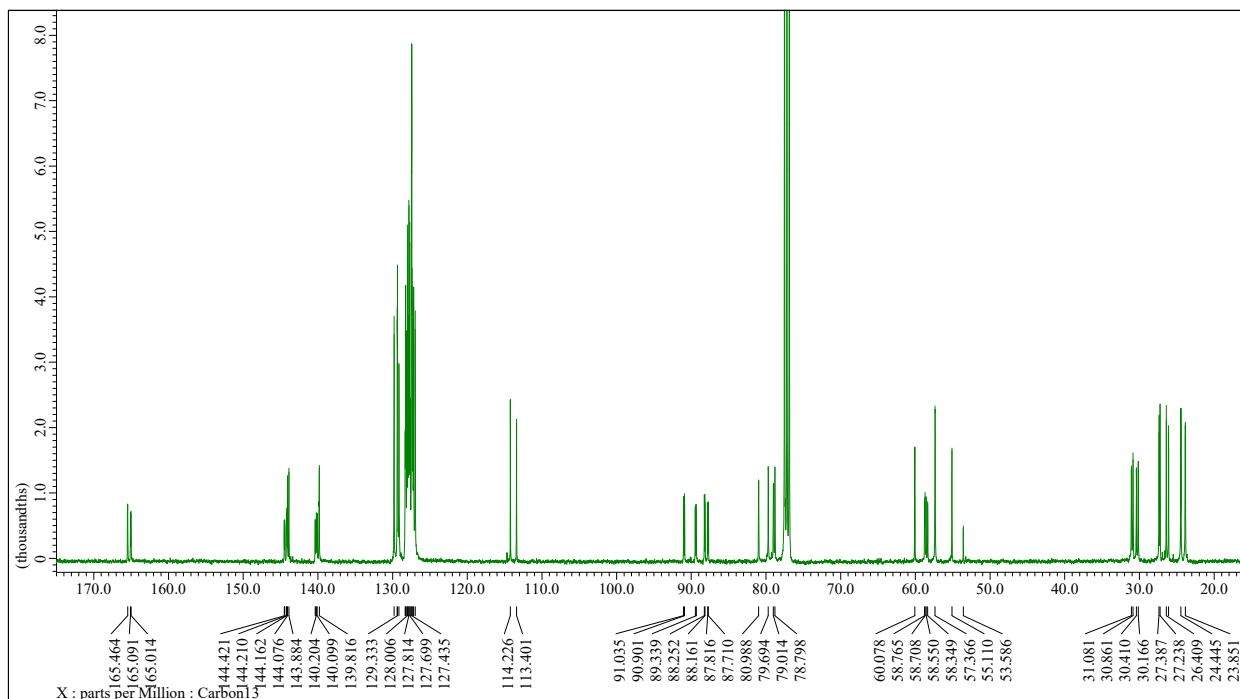


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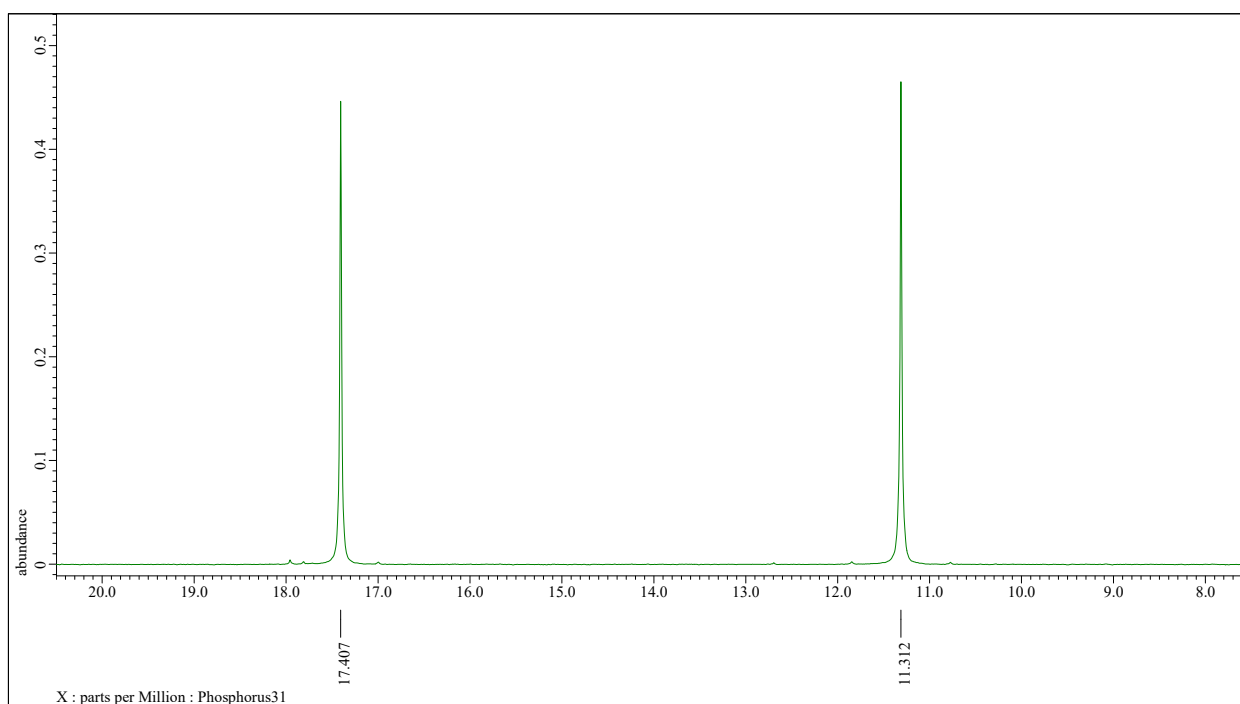
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(a)

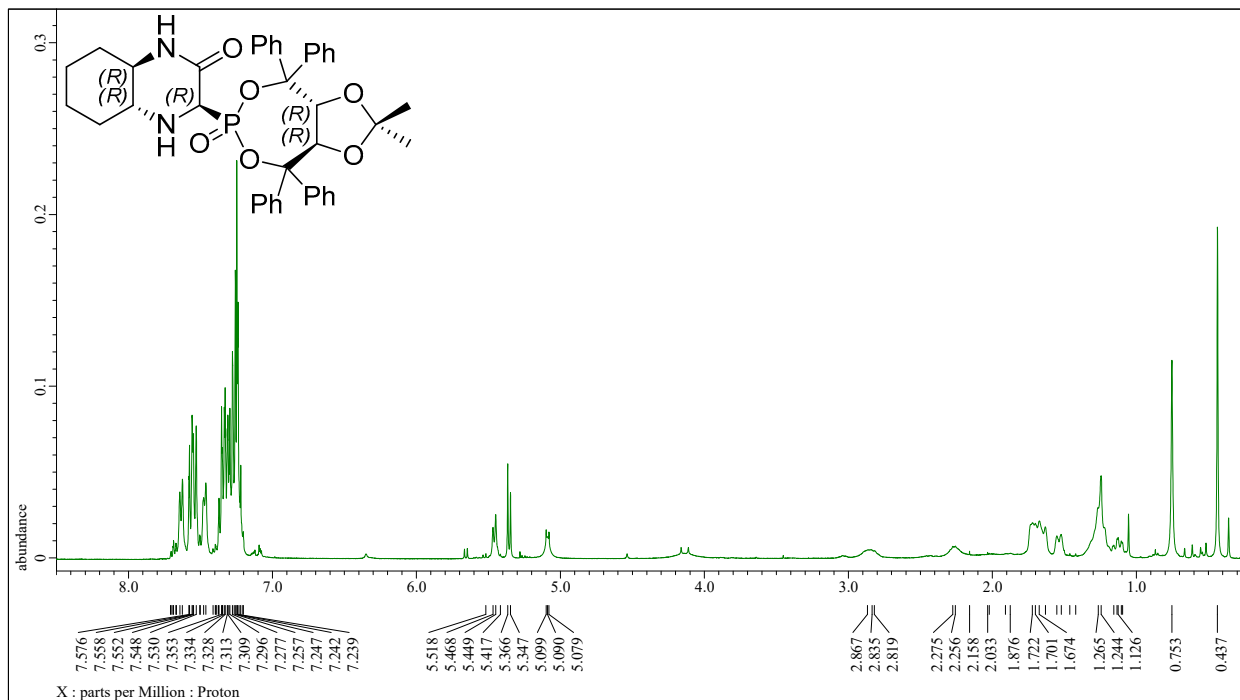


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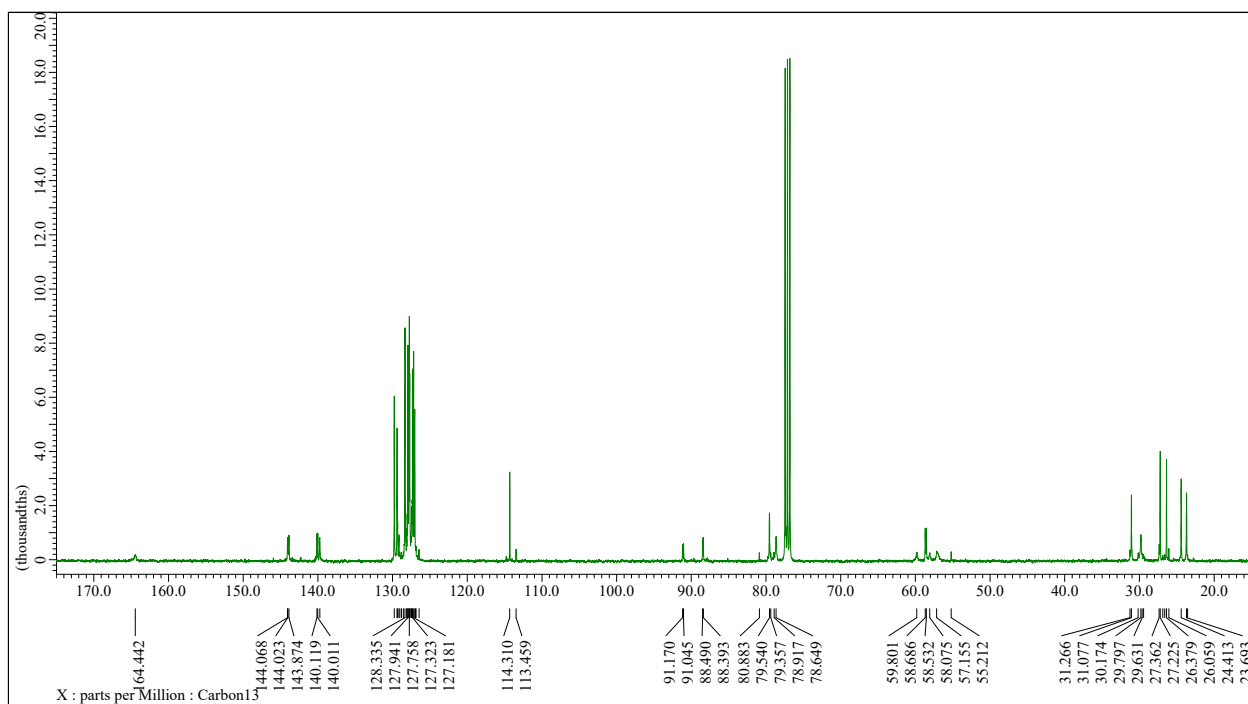


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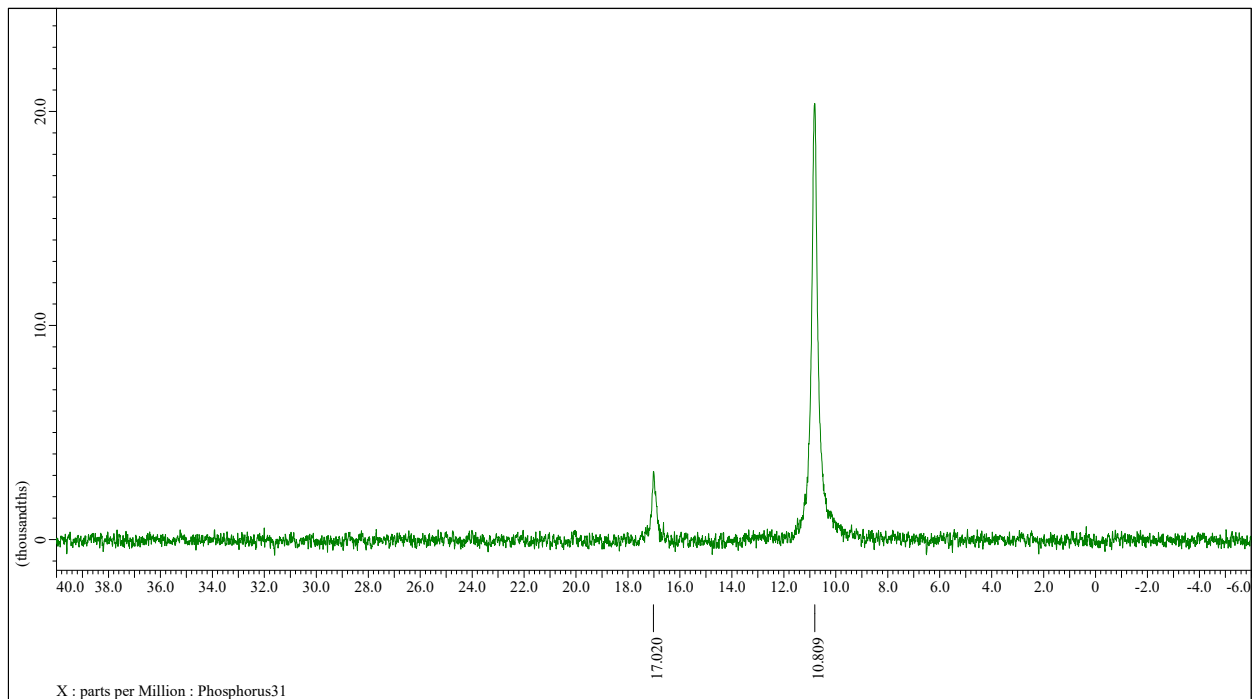
**Figure 7.** (a)  $^1\text{H}$  NMR, (b)  $^{13}\text{C}$  NMR and (c)  $^{31}\text{P}$  NMR spectra of 4-((3a*R*,8a*R*)-2,2-dimethyl-6-oxido-4,4,8,8-tetraphenyltetrahydro-[1,3]dioxolo[4,5-*e*][1,3,2]dioxaphosphepin-6-yl)-(1*R*,6*R*)-3-oxo-2,5-diazabicyclo[4.4.0]decan 2f.



(a)

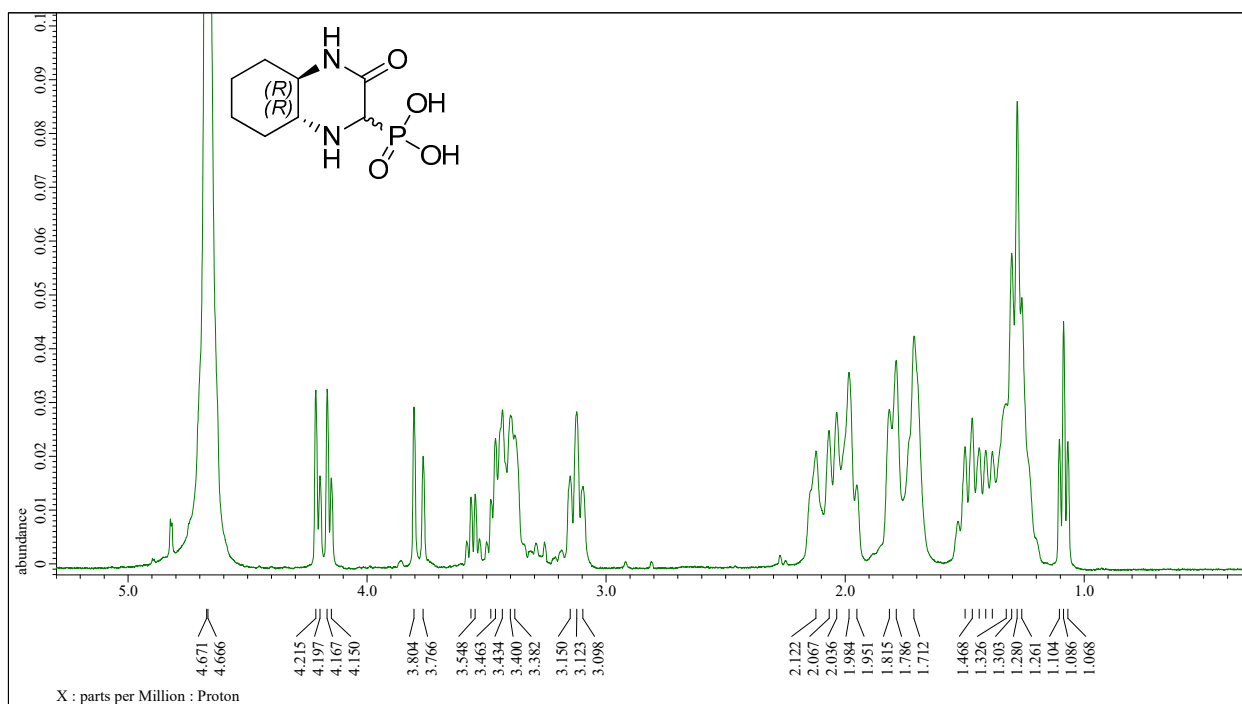


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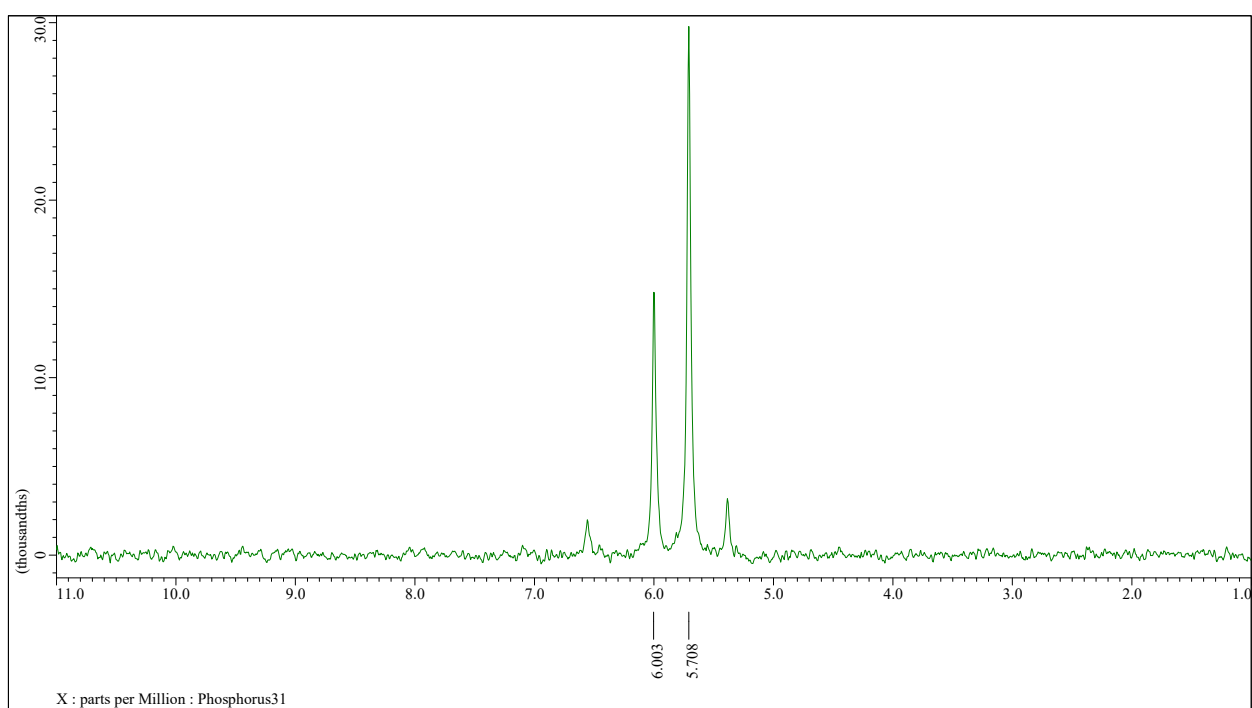
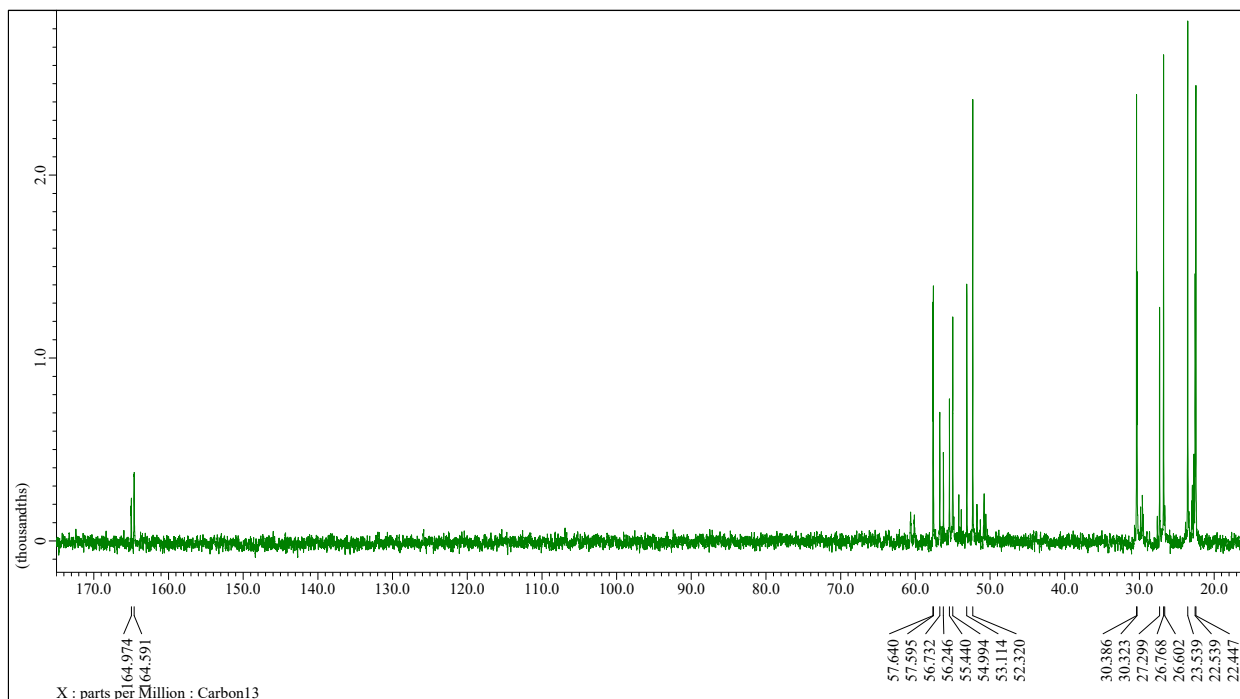


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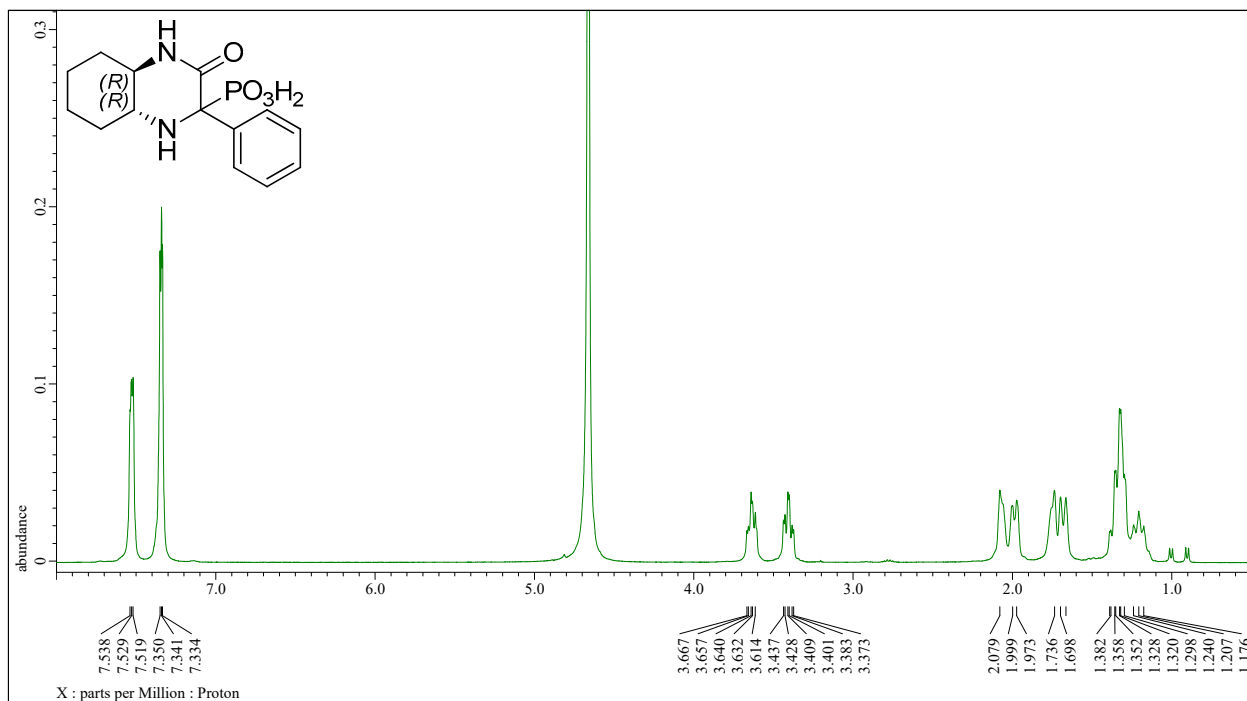
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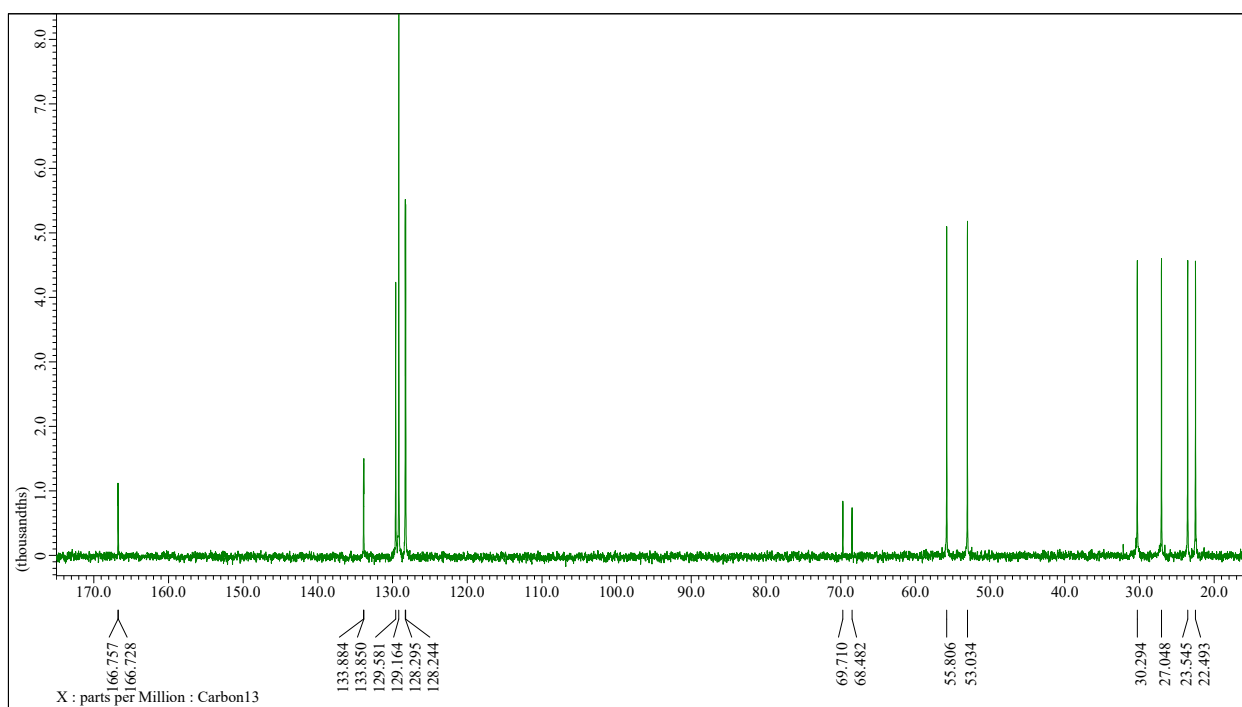
(a)



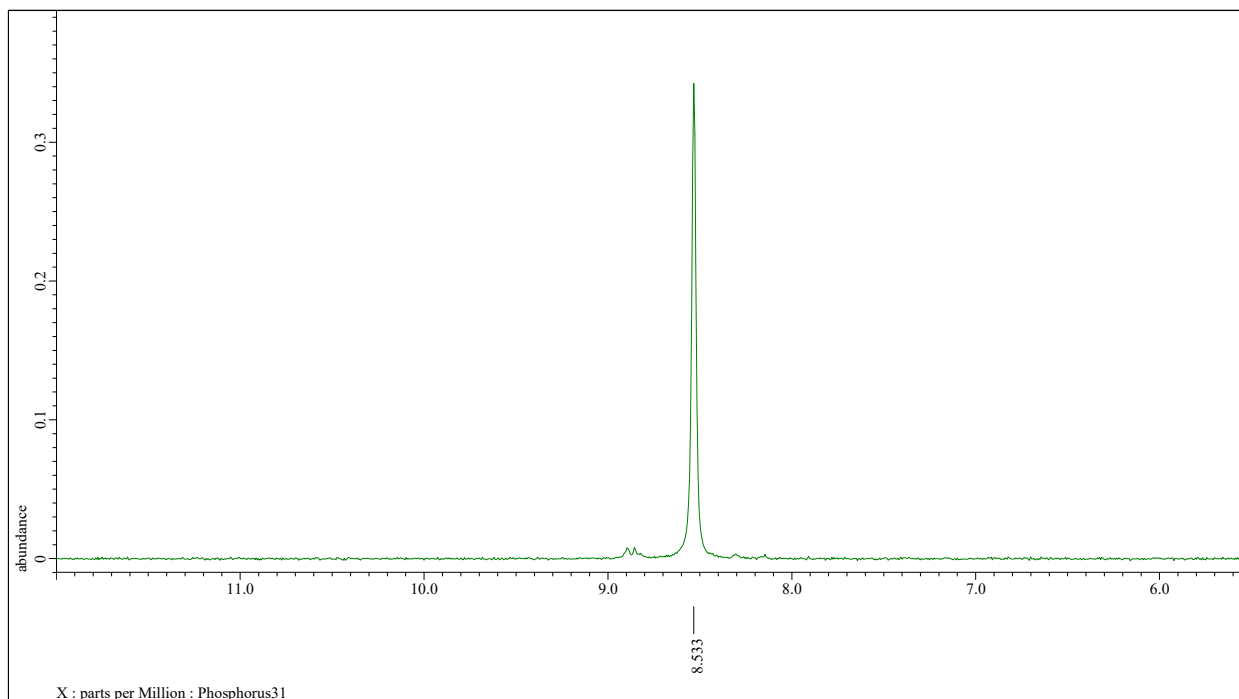
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(a)



(b)



(c)

**Figure S10.** (a)  $^1\text{H}$  NMR, (b)  $^{13}\text{C}$  NMR and (c)  $^{31}\text{P}$  NMR spectra of [4-phenyl-(1*R*,6*R*)-3-oxo-2,5-diazabicyclo[4.4.0]dec-4-yl]-phosphonic acid 3b.



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