

## 1-乙基-3-甲基咪唑丙氨酸离子液体热力学性质的研究

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## Study on Thermodynamic Properties of Ionic Liquid 1-Ethyl-3-methylimidazolium Alanine

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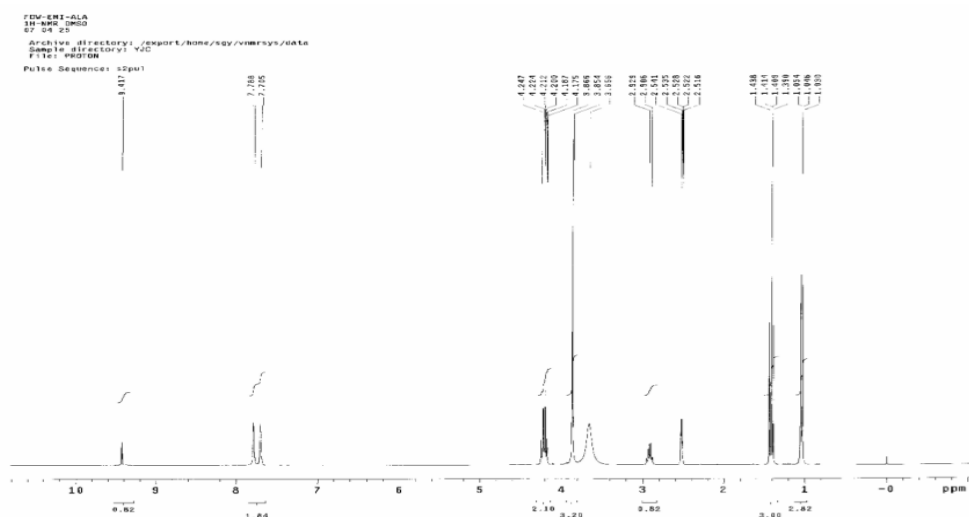
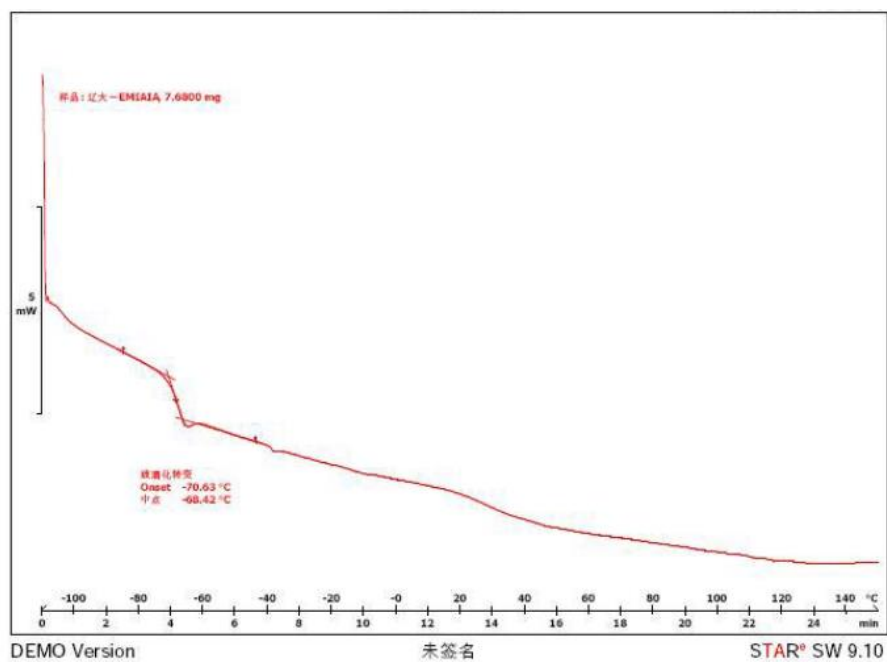


Fig.S1 离子液体[C<sub>2</sub>mim][Ala]的核磁共振氢谱(300 MHz, DMSO)

表 S1 离子液体[C<sub>2</sub>mim][Ala]核磁共振氢谱数据表 (300 MHz, DMSO)

Chemical shift	Hydrogen number	Radical
0.982~1.017 (t)	3.0	NCH <sub>2</sub> CH <sub>3</sub>
7.721(d)	1.0	C(4)H
2.819~2.842(m)	1.0	CH
3.873(s)	3.0	NCH <sub>3</sub>
1.372~1.428 (d)	3.0	CHCH <sub>3</sub>
9.692(s)	1.0	C(2)H
7.815(d)	1.0	C(5)H
4.162~4.241 (t)	2.0	NCH <sub>2</sub>



**Fig.S2 离子液体[C<sub>2</sub>mim][Ala]的 DSC 图**

差式扫描量热温度的测量范围-110-150 °C，加热速率为 10 °C/min，样品测试前需在 -110 °C 停留使其稳定 5 分钟，随后开始进行测试阶段。