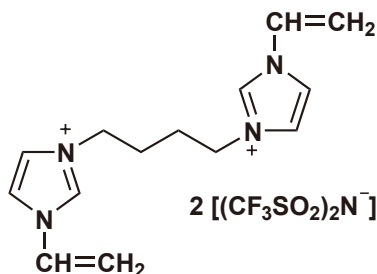
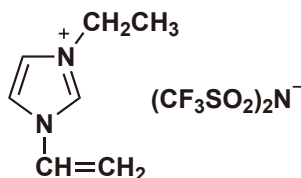


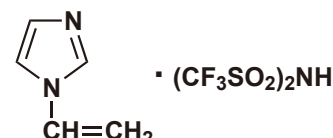
# Monomers for Poly(Ionic Liquid) Synthesis



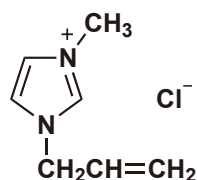
1g  
[B5421]



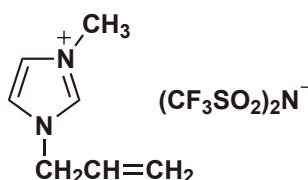
5g  
[E1280]



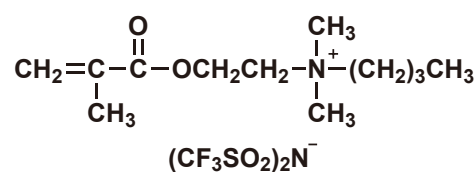
5g  
[V0145]



5g / 25g  
[A2084]



5g / 25g  
[A3210]



1g / 5g  
[M2987]

These chemicals bearing vinyl, allyl, or methacryl groups have been reported useful starting materials in the synthesis of polymers with properties as ionic liquids.

## Applications

### Polymeric electrolytes

- [E1280] H. Ohno, *Electrochim. Acta* **2001**, 46, 1407.
- [V0145] J. Lemus, A. Eguizábal, M. P. Pina, *Int. J. Hydrog. Energy* **2015**, 40, 5416.
- [A2084] A. C. Tibbits, Y. S. Yan, C. J. Kloxin, *Macromol. Rapid Commun.* **2017**, 38, 1700113.
- [A3210] A. F. Bratton, S.-S. Kim, C. J. Ellison, K. M. Miller, *Ind. Eng. Chem. Res.* **2018**, 57, 16526.
- [M2987] H. Zhang, L. Li, W. Feng, Z. Zhou, J. Nie, *Polymer* **2014**, 55, 3339.

### Gas separation membrane

- [B5421] P. Li, K. P. Pramoda, T.-S. Chung, *Ind. Eng. Chem. Res.* **2011**, 50, 9344.

### Capsule for enzyme immobilization

- [E1280] M. Moniruzzaman, K. Ino, N. Kamiya, M. Goto, *Org. Biomol. Chem.* **2012**, 10, 7707.

### Polymer monolith

- [A2084] J. Wang, L. Bai, Z. Wei, J. Qin, Y. Ma, H. Liu, *J. Sep. Sci.* **2015**, 38, 2101.

### Lipophilic polymer gel

- [M2987] J. Chen, S. Wang, J. Peng, J. Li, M. Zhai, *ACS Appl. Mater. Interfaces* **2014**, 6, 14894.

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).  monomers OR ionic liquids 

## Ordering and Customer Service

### TCI AMERICA

Tel : 800-423-8616 / 503-283-1681  
Fax : 888-520-1075 / 503-283-1987  
E-mail : Sales-US@TCIchemicals.com

### TCI EUROPE N.V.

Tel : +32 (0)3 735 07 00  
Fax : +32 (0)3 735 07 01  
E-mail : Sales-EU@TCIchemicals.com

### TCI Deutschland GmbH

Tel : +49 (0)6196 64053-00  
Fax : +49 (0)6196 64053-01  
E-mail : Sales-DE@TCIchemicals.com

### Tokyo Chemical Industry UK Ltd.

Tel : +44 (0)1865 78 45 60  
E-mail : Sales-UK@TCIchemicals.com

### TCI Chemicals (India) Pvt. Ltd.

Tel : 1800 425 7889 / 044-2262 0909  
Fax : 044-2262 8902  
E-mail : Sales-IN@TCIchemicals.com

### 梯希爱(上海)化成工业发展有限公司

Tel : 800-988-0390 / 021-67121386  
Fax : 021-6712-1385  
E-mail : Sales-CN@TCIchemicals.com

### TOKYO CHEMICAL INDUSTRY CO., LTD.

Tel : +81 (0)3-5640-8878  
E-mail : globalbusiness@TCIchemicals.com

Availability, price or specification of the listed products are subject to change without prior notice. Reproduction forbidden without the prior written consent of Tokyo Chemical Industry Co., Ltd.