

# Ionic Liquid Screen

**HAMPTON**  
RESEARCH

Solutions for Crystal Growth

## Formulation Sheet

HR2-214 (Page 1 of 2)

**Ionic Liquid 1:** 50% w/v Tetraethylammonium bromide

**Purity:** 98%

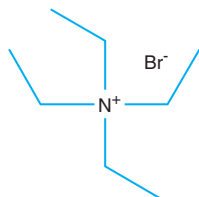
**CAS Number:** [71-91-0]

**M<sub>r</sub>:** 210.16

**Molecular Formula:** C<sub>8</sub>H<sub>20</sub>BrN

**Cation:** Tetraethylammonium

**Anion:** Bromide



**Ionic Liquid 7:** 50% w/v 1-Ethyl-3-methylimidazolium acetate

**Purity:** 95%

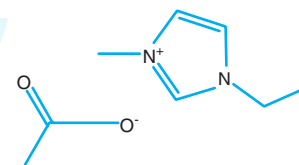
**CAS Number:** [143314-17-4]

**M<sub>r</sub>:** 170.21

**Molecular Formula:** C<sub>8</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>

**Cation:** 1-Ethyl-3-methylimidazolium

**Anion:** Acetate



**Ionic Liquid 2:** 50% w/v Benzyltriethylammonium chloride

**Purity:** 99%

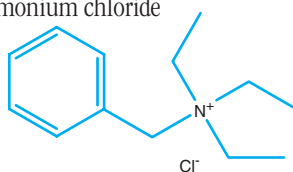
**CAS Number:** [56-37-1]

**M<sub>r</sub>:** 227.78

**Molecular Formula:** C<sub>13</sub>H<sub>22</sub>ClN

**Cation:** Benzyltriethylammonium

**Anion:** Chloride



**Ionic Liquid 8:** 50% w/v 1-Butyl-3-methylimidazolium chloride

**Purity:** 99%

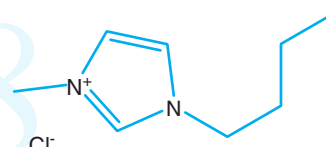
**CAS Number:** [79917-90-1]

**M<sub>r</sub>:** 174.67

**Molecular Formula:** C<sub>8</sub>H<sub>15</sub>ClN<sub>2</sub>

**Cation:** 1-Butyl-3-methylimidazolium

**Anion:** Chloride



**Ionic Liquid 3:** 50% w/v 2-Hydroxyethylammonium formate

**Purity:** 97%

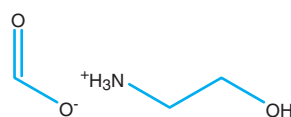
**CAS Number:** [53226-35-0]

**M<sub>r</sub>:** 107.11

**Molecular Formula:** C<sub>3</sub>H<sub>9</sub>NO<sub>3</sub>

**Cation:** 2-Hydroxyethylammonium

**Anion:** Formate



**Ionic Liquid 9:** 50% w/v 1-Ethyl-3-methylimidazolium chloride

**Purity:** 98%

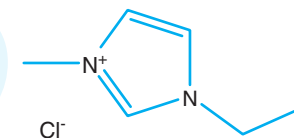
**CAS Number:** [65039-09-0]

**M<sub>r</sub>:** 146.62

**Molecular Formula:** C<sub>6</sub>H<sub>11</sub>ClN<sub>2</sub>

**Cation:** 1-Ethyl-3-methylimidazolium

**Anion:** Chloride



**Ionic Liquid 4:** 50% w/v Ethylammonium nitrate

**Purity:** 97%

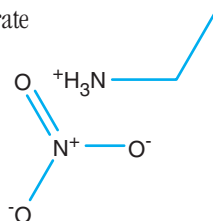
**CAS Number:** [22113-86-6]

**M<sub>r</sub>:** 108.10

**Molecular Formula:** C<sub>2</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>

**Cation:** Ethylammonium

**Anion:** Nitrate



**Ionic Liquid 10:** 50% w/v 1-Hexyl-3-methylimidazolium chloride

**Purity:** 98%

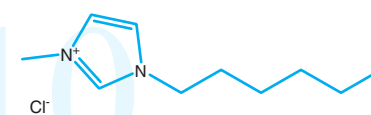
**CAS Number:** [171058-17-6]

**M<sub>r</sub>:** 202.73

**Molecular Formula:** C<sub>10</sub>H<sub>19</sub>ClN<sub>2</sub>

**Cation:** 1-Hexyl-3-methylimidazolium

**Anion:** Chloride



**Ionic Liquid 5:** 50% w/v Cholin acetate

**Purity:** 95%

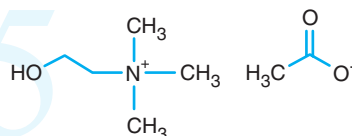
**CAS Number:** [14586-35-7]

**M<sub>r</sub>:** 163.22

**Molecular Formula:** C<sub>7</sub>H<sub>17</sub>NO<sub>3</sub>

**Cation:** Choline

**Anion:** Acetate



**Ionic Liquid 11:** 50% w/v 1-Butyl-3-methylimidazolium dicyanamide

**Purity:** 98%

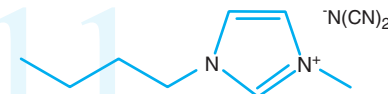
**CAS Number:** [448245-52-1]

**M<sub>r</sub>:** 205.26

**Molecular Formula:** C<sub>10</sub>H<sub>15</sub>N<sub>5</sub>

**Cation:** 1-Butyl-3-methylimidazolium

**Anion:** Dicyanamide



**Ionic Liquid 6:** 50% w/v Choline dihydrogen phosphate

**Purity:** 98%

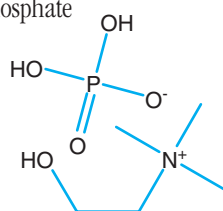
**CAS Number:** [83846-92-8]

**M<sub>r</sub>:** 201.16

**Molecular Formula:** C<sub>5</sub>H<sub>16</sub>NPO<sub>5</sub>

**Cation:** Choline

**Anion:** Dihydrogen phosphate



**Ionic Liquid 12:** 50% w/v 1,3-Dimethylimidazolium dimethyl phosphate

**Purity:** 98%

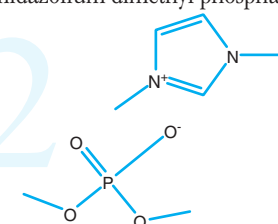
**CAS Number:** [654058-04-5]

**M<sub>r</sub>:** 222.18

**Molecular Formula:** C<sub>7</sub>H<sub>15</sub>N<sub>2</sub>O<sub>4</sub>P

**Cation:** 1,3-Dimethylimidazolium

**Anion:** Dimethyl phosphate



# Ionic Liquid Screen

**HAMPTON**  
**RESEARCH**

Solutions for Crystal Growth

## Formulation Sheet

HR2-214 (Page 2 of 2)

**Ionic Liquid 13:** 50% w/v 1,3-Dimethylimidazolium methyl sulfate

**Purity:** 99%

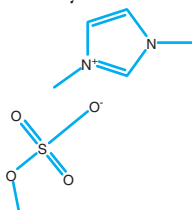
**CAS Number:** [97345-90-9]

**M<sub>r</sub>:** 208.24

**Molecular Formula:** C<sub>6</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub>S

**Cation:** 1,3-Dimethylimidazolium

**Anion:** Methyl sulfate



**Ionic Liquid 19:** 50% w/v 1-Butyl-3-methylimidazolium tetrafluoroborate

**Purity:** 99%

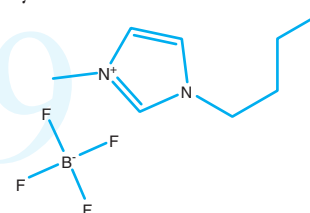
**CAS Number:** [174501-65-6]

**M<sub>r</sub>:** 226.03

**Molecular Formula:** C<sub>8</sub>H<sub>15</sub>BF<sub>4</sub>N<sub>2</sub>

**Cation:** 1-Butyl-3-methylimidazolium

**Anion:** Tetrafluoroborate



**Ionic Liquid 14:** 50% w/v 1-Butyl-3-methylimidazolium methyl sulfate

**Purity:** 95%

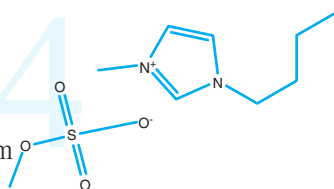
**CAS Number:** [401788-98-5]

**M<sub>r</sub>:** 250.32

**Molecular Formula:** C<sub>9</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S

**Cation:** 1-n-Butyl-3-methylimidazolium

**Anion:** Methyl sulfate



**Ionic Liquid 20:** 50% w/v 1-Butyl-3-methylimidazolium trifluoroacetate

**Purity:** 99%

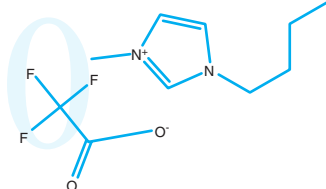
**CAS Number:** [174899-94-6]

**M<sub>r</sub>:** 252.24

**Molecular Formula:** C<sub>10</sub>H<sub>15</sub>F<sub>3</sub>N<sub>2</sub>O<sub>2</sub>

**Cation:** 1-Butyl-3-methylimidazolium

**Anion:** Trifluoroacetate



**Ionic Liquid 15:**

50% w/v 1-n-Butyl-3-methylimidazolium n-octylsulfate

**Purity:** 99%

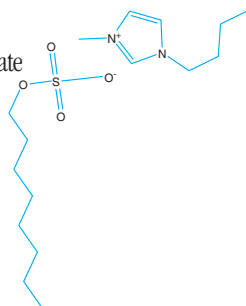
**CAS Number:** [445473-58-5]

**M<sub>r</sub>:** 348.51

**Molecular Formula:** C<sub>16</sub>H<sub>32</sub>N<sub>2</sub>O<sub>4</sub>S

**Cation:** 1-n-Butyl-3-methylimidazolium

**Anion:** n-Octylsulfate



**Ionic Liquid 21:**

50% w/v 1-Ethyl-3-methylimidazolium trifluoromethanesulfonate

**Purity:** 99%

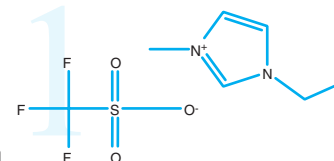
**CAS Number:** [145022-44-2]

**M<sub>r</sub>:** 260.24

**Molecular Formula:** C<sub>7</sub>H<sub>11</sub>F<sub>3</sub>N<sub>2</sub>O<sub>3</sub>S

**Cation:** 1-Ethyl-3-methylimidazolium

**Anion:** Trifluoromethanesulfonate



**Ionic Liquid 16:** 50% w/v 1-Ethyl-3-methylimidazolium thiocyanate

**Purity:** 98%

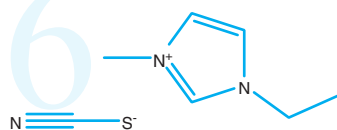
**CAS Number:** [331717-63-6]

**M<sub>r</sub>:** 169.25

**Molecular Formula:** C<sub>7</sub>H<sub>11</sub>N<sub>3</sub>S

**Cation:** 1-Ethyl-3-methylimidazolium

**Anion:** Thiocyanate



**Ionic Liquid 22:** 50% w/v Tetrabutylphosphonium bromide

**Purity:** 95%

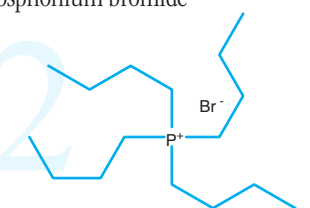
**CAS Number:** [3115-68-2]

**M<sub>r</sub>:** 339.34

**Molecular Formula:** C<sub>16</sub>H<sub>36</sub>BrP

**Cation:** Tetrabutylphosphonium

**Anion:** Bromide



**Ionic Liquid 17:**

50% w/v 1-Ethyl-3-methylimidazolium tetrafluoroborate

**Purity:** 98%

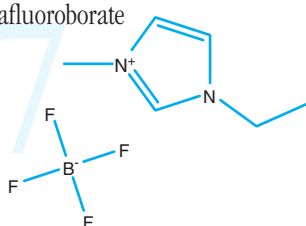
**CAS Number:** [143314-16-3]

**M<sub>r</sub>:** 197.97

**Molecular Formula:** C<sub>6</sub>H<sub>11</sub>BF<sub>4</sub>N<sub>2</sub>

**Cation:** 1-Ethyl-3-methylimidazolium

**Anion:** Tetrafluoroborate



**Ionic Liquid 23:**

50% w/v Triisobutylmethylphosphonium tosylate

**Purity:** 95%

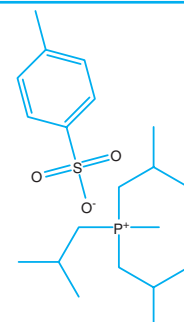
**CAS Number:** [344774-05-6]

**M<sub>r</sub>:** 388.55

**Molecular Formula:** C<sub>20</sub>H<sub>37</sub>O<sub>3</sub>PS

**Cation:** Triisobutylmethylphosphonium

**Anion:** Tosylate



**Ionic Liquid 18:** 50% w/v 1-Butyl-2,3-dimethylimidazolium tetrafluoroborate

**Purity:** 99%

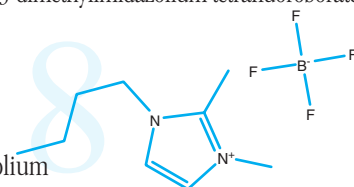
**CAS Number:** [402846-78-0]

**M<sub>r</sub>:** 240.05

**Molecular Formula:** C<sub>9</sub>H<sub>17</sub>BF<sub>4</sub>N<sub>2</sub>

**Cation:** 1-Butyl-2,3-dimethylimidazolium

**Anion:** Tetrafluoroborate



**Ionic Liquid 24:** 50% w/v 1-Butylpyridinium chloride

**Purity:** 98%

**CAS Number:** [1124-64-7]

**M<sub>r</sub>:** 171.67

**Molecular Formula:** C<sub>9</sub>H<sub>14</sub>ClN

**Cation:** 1-Butylpyridinium

**Anion:** Chloride

