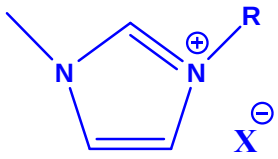
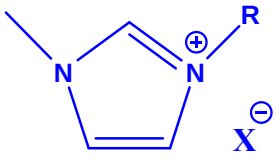
Ionic Liquids

Imidazolium-Based

Disubstituted Imidazolium-Based

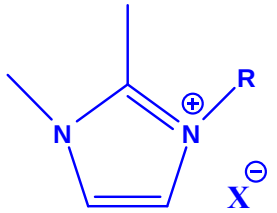


[MMIm]Cl	$C_5H_9N_2Cl$	79917-88-7	≥99%
[MMIm] I	$C_5H_9N_2I$	4333-62-4	≥99%
[MMIm] BF_4	$C_5H_9N_2BF_4$	121091-31-4	≥99%
[MMIm] PF_6	$C_5H_9N_2PF_6$	243664-15-5	≥99%
[MMIm] NTf_2	$C_7H_9O_4N_3S_2F_6$	174899-81-1	≥99%
[EMIm]Cl	$C_6H_{11}N_2Cl$	65039-09-0	≥99%
[EMIm] Br	$C_6H_{11}N_2Br$	65039-08-9	≥99%
[EMIm] I	$C_6H_{11}N_2I$	35935-34-3	≥99%
[EMIm] BF_4	$C_6H_{11}N_2BF_4$	143314-16-3	≥99%
[EMIm] PF_6	$C_6H_{11}N_2PF_6$	155371-19-0	≥99%
[EMIm] HSO_4	$C_6H_{12}N_2SO_4$	674282-83-8	≥97%
[EMIm] $EtOSO_3$	$C_8H_{16}N_2SO_4$	342573-75-5	≥98%
[EMIm] $(EtO)_2PO_2$	$C_{10}H_{21}N_2PO_4$	848641-69-0	≥98%
[EMIm] NTf_2	$C_8H_{11}F_6N_3S_2O_4$	174899-82-2	≥99%
[EMIm] FSI	$C_6H_{11}F_2N_3S_2O_4$	235789-75-0	≥99%
[EMIm] $N(CN)_2$	$C_8H_{11}N_5$	923019-22-1	≥98%
[EMIm] OTf	$C_7H_{11}F_3N_2O_3S$	145022-44-2	≥99%
[EMIm] CF_3COO	$C_8H_{11}N_2O_2F_3$	174899-65-1	≥99%
[EMIm] SCN	$C_7H_{11}N_3S$	331717-63-6	≥98%
[EMIm] TsO	$C_{13}H_{18}O_3N_2S$	328090-25-1	≥99%
[EMIm] Ac	$C_8H_{14}N_2O_2$	143314-17-4	≥98%
[PMIm] Cl	$C_7H_{13}N_2Cl$	79917-89-8	≥98%
[PMIm] Br	$C_7H_{13}N_2Br$	85100-76-1	≥98%
[PMIm] I	$C_7H_{13}N_2I$	119171-18-5	≥98%
[PMIm] BF_4	$C_7H_{13}N_2BF_4$	244193-48-4	≥98%
[PMIm] PF_6	$C_7H_{13}N_2PF_6$	216300-12-8	≥98%
[PMIm] NTf_2	$C_9H_{13}O_4N_3S_2F_6$	216299-72-8	≥98%
[BMIm] Cl	$C_8H_{15}N_2Cl$	79917-90-1	≥99%
[BMIm] Br	$C_8H_{15}N_2Br$	85100-77-2	≥99%
[BMIm] I	$C_8H_{15}N_2I$	65039-05-6	≥99%
[BMIm] BF_4	$C_8H_{15}N_2BF_4$	174501-65-6	≥99%
[BMIm] PF_6	$C_8H_{15}N_2PF_6$	174501-64-5	≥99%
[BMIm] NO_3	$C_8H_{15}O_3N_3$	179075-88-8	≥99%
[BMIm] ClO_4	$C_8H_{15}O_4N_2Cl$	220956-35-4	≥99%
[BMIm] NTf_2	$C_{10}H_{15}O_4N_3S_2F_6$	174899-83-3	≥99%
[BMIm] FSI	$C_8H_{15}O_4N_3S_2F_2$	1235234-58-8	≥99%
[BMIm] $N(CN)_2$	$C_{10}H_{15}N_5$	448245-52-1	≥98%
[BMIm] TsO	$C_{15}H_{22}O_3N_2S$	925230-47-3	≥99%
[BMIm] H_2PO_4	$C_8H_{17}O_4N_2P$	478935-31-8	≥97%
[BMIm] HSO_4	$C_8H_{16}O_4N_2S$	262297-13-2	≥97%
[BMIm] SCN	$C_9H_{15}N_3S$	344790-87-0	≥98%
[BMIm] OTf	$C_9H_{15}N_2F_3SO_3$	174899-66-2	≥98%



[BMIm] Ac	$C_{10}H_{18}N_2O_2$	284049-75-8	≥98%
[C_5MIm] Cl	$C_9H_{17}N_2Cl$	171058-22-3	≥98%
[C_5MIm] Br	$C_9H_{17}N_2Br$	343851-31-0	≥98%
[C_5MIm] BF_4	$C_9H_{17}N_2BF_4$	244193-49-5	≥98%
[C_5MIm] PF_6	$C_9H_{17}N_2PF_6$	280779-52-4	≥98%
[HMIm] Cl	$C_{10}H_{19}N_2Cl$	171058-17-6	≥98%
[HMIm] Br	$C_{10}H_{19}N_2Br$	85100-78-3	≥98%
[HMIm] I	$C_{10}H_{19}N_2I$	178631-05-5	≥98%
[HMIm] BF_4	$C_{10}H_{19}N_2BF_4$	244193-50-8	≥98%
[HMIm] PF_6	$C_{10}H_{19}N_2PF_6$	304680-35-1	≥98%
[HMIm] NTf_2	$C_{12}H_{19}O_4N_3S_2F_6$	916729-96-9	≥98%
[HMIm] OTf	$C_{11}H_{19}O_3N_2SF_3$	460345-16-8	≥98%
[HMIm] Ac	$C_{12}H_{22}O_2N_2$	888320-05-6	≥98%
[OMIm] Br	$C_{12}H_{23}N_2Br$	61545-99-1	≥98%
[OMIm] Cl	$C_{12}H_{23}N_2Cl$	64697-40-1	≥98%
[OMIm] BF_4	$C_{12}H_{23}N_2BF_4$	244193-52-0	≥98%
[OMIm] PF_6	$C_{12}H_{23}N_2PF_6$	304680-36-2	≥98%
[OMIm] NTf_2	$C_{14}H_{23}O_4N_3S_2F_6$	862731-66-6	≥98%
[OMIm] OTf	$C_{13}H_{23}O_3N_2SF_3$	403842-84-2	≥98%
[OMIm] Ac	$C_{14}H_{26}O_2N_2$	366491-21-6	≥98%
[DMIm] Cl	$C_{14}H_{27}N_2Cl$	171058-18-7	≥98%
[DMIm] Br	$C_{14}H_{27}N_2Br$	188589-32-4	≥98%
[DMIm] BF_4	$C_{14}H_{27}N_2BF_4$	244193-56-4	≥98%
[DMIm] PF_6	$C_{14}H_{27}N_2PF_6$	362043-46-7	≥98%
[DMIm] NTf_2	$C_{16}H_{27}O_4N_3S_2F_6$	433337-23-6	≥98%
[DMIm] NO_3	$C_{14}H_{27}O_3N_3$	1057409-91-2	≥98%
[C_{12}MIm]Cl	$C_{16}H_{31}N_2Cl$	114569-84-5	≥98%
[C_{12}MIm]Br	$C_{16}H_{31}N_2Br$	188589-32-4	≥98%
[C_{12}MIm] BF_4	$C_{18}H_{31}O_2PF_6$	244193-59-7	≥98%
[C_{14}MIm]Cl	$C_{18}H_{35}N_2Cl$	171058-21-2	≥98%
[C_{14}MIm]Br	$C_{18}H_{35}N_2Br$	471907-87-6	≥98%
[C_{16}MIm]Cl	$C_{20}H_{39}N_2Cl$	61546-01-8	≥98%
[C_{16}MIm]Br	$C_{20}H_{39}N_2Br$	132361-22-9	≥98%

Trisubstituted Imidazolium-Based

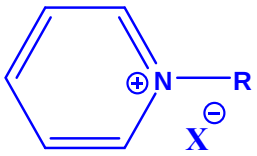


[EMMIm] Br	$C_7H_{13}N_2Br$	98892-76-3	≥99%
[EMMIm] BF_4	$C_7H_{13}N_2BF_4$	307492-75-7	≥99%
[EMMIm] NTf_2	$C_9H_{13}O_4N_3S_2F_6$	174899-90-2	≥99%
[PMMIm] Cl	$C_8H_{15}N_2Cl$	98892-74-1	≥98%
[PMMIm] I	$C_8H_{15}N_2I$	218151-78-1	≥98%
[BMMIm] Cl	$C_9H_{17}N_2Cl$	98892-75-2	≥99%
[BMMIm] Br	$C_9H_{17}N_2Br$	475575-45-2	≥99%
[BMMIm] BF_4	$C_9H_{17}N_2BF_4$	402846-78-0	≥99%
[BMMIm] PF_6	$C_9H_{17}N_2PF_6$	227617-70-1	≥99%
[BMMIm] NTf_2	$C_{11}H_{17}O_4N_3S_2F_6$	350493-08-2	≥99%
[HMMIm] Cl	$C_{11}H_{21}N_2Cl$	455270-59-4	≥98%
[HMMIm] Br	$C_{11}H_{21}N_2Br$	411222-01-0	≥98%

Monosubstituted Imidazolium-Based

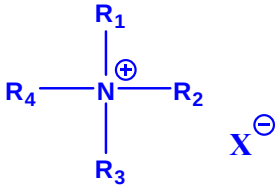
	[MIm] Cl	$C_4H_7N_2Cl$	35487-17-3	≥98%
	[MIm] HSO_4	$C_4H_8N_2SO_4$	681281-87-8	≥98%

Pyridine-Based



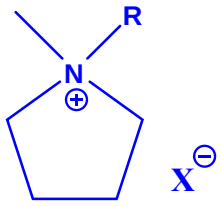
[Epy]Br	$C_7H_{10}NBr$	1906-79-2	≥99%
[Epy]BF_4	$C_7H_{10}NBF_4$	350-48-1	≥99%
[Bpy]Cl	$C_9H_{14}NCl$	1124-64-7	≥99%
[Bpy]Br	$C_9H_{14}NBr$	874-80-6	≥99%
[Bpy]BF_4	$C_9H_{14}NBF_4$	203389-28-0	≥99%
[Bpy]PF_6	$C_9H_{14}NPF_6$	186088-50-6	≥99%
[Bpy]NTf_2	$C_{11}H_{14}O_4N_2S_2F_6$	187863-42-9	≥99%
[Hpy]Br	$C_{11}H_{18}NBr$	74440-81-6	≥98%
[Hpy]BF_4	$C_{11}H_{18}NBF_4$	474368-70-2	≥98%
[Hpy]PF_6	$C_{11}H_{18}NPF_6$	797789-00-5	≥98%
[Hpy]NTf_2	$C_{13}H_{18}O_4N_2S_2F_6$	460983-97-5	≥99%
[Opy]Br	$C_{13}H_{22}NBr$	244193-52-0	≥98%

Ammonium-Based



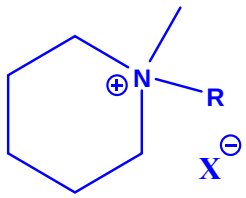
[$N_{1,1,1,1}$] PF_6	$C_4H_{12}NPF_6$	558-32-7	≥99%
[$N_{1,1,1,1}$] Gly	$C_6H_{17}N_2O_2$	55378-67-1	≥99%
[$N_{2,2,2,II}$] NO_3	$C_6H_{16}N_2O_3$	27096-31-7	≥97%
[$N_{2,2,2,2}$] Cl	$C_6H_{15}ClN$	56-34-8	≥99%
[$N_{2,2,2,2}$] BF_4	$C_8H_{20}BF_4N$	429-06-1	≥99%
[$N_{2,2,2,2}$] PF_6	$C_8H_{20}PF_6N$	429-07-2	≥99%
[$N_{4,4,4,1}$] Cl	$C_{13}H_{30}NCl$	56375-79-2	≥99%
[$N_{4,4,4,1}$] NTf_2	$C_{15}H_{30}F_6N_2S_2O_4$	405514-94-5	≥99%
[$N_{4,4,4,4}$] Cl	$C_{16}H_{36}ClN$	1112-67-0	≥99%
[$N_{4,4,4,4}$] Br	$C_{16}H_{36}BrN$	1643-19-2	≥99%
[$N_{4,4,4,4}$] PF_6	$C_{16}H_{36}NPF_6$	3109-63-5	≥99%
[$N_{4,4,4,4}$] NTf_2	$C_{16}H_{36}F_6N_2S_2O_4$	210230-40-3	≥99%
[$N_{4,4,4,4}$] OTf	$C_{17}H_{36}F_3NO_3S$	35895-70-6	≥99%
[$N_{8,8,8,1}$] NTf_2	$C_{27}H_{54}F_6N_2S_2O_4$	375395-33-8	≥99%

Pyrrolidinium-Based



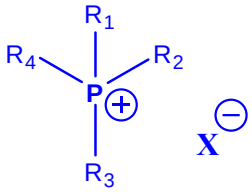
$P_{1,2}$Br	$C_7H_{16}NBr$	69227-51-6	≥99%
$P_{1,3}$Br	$C_8H_{18}NBr$	608140-09-6	≥99%
$P_{1,3}NTf_2$	$C_{10}H_{18}N_2O_4S_2F_6$	223437-05-6	≥99%
$P_{1,3}$FSI	$C_8H_{18}N_2O_4S_2F_2$	852620-97-4	≥99%
$P_{1,4}$Br	$C_9H_{20}NBr$	93457-69-3	≥99%
$P_{1,4}BF_4$	$C_9H_{20}NBF_4$	345974-11-4	≥99%
$P_{1,4}PF_6$	$C_9H_{20}NPF_6$	330671-29-9	≥99%
$P_{1,4}NTf_2$	$C_{11}H_{20}N_2O_4S_2F_6$	223437-11-4	≥99%
$P_{1,4}N(CN)_2$	$C_{11}H_{20}N_4$	370865-80-8	≥99%

Piperidinium-Based



$PP_{1,3}NTf_2$	$C_{11}H_{20}N_2O_4S_2F_6$	608140-12-1	≥99%
$PP_{1,4}Br$	$C_{10}H_{22}NBr$	94280-72-5	≥99%
$PP_{1,4}NTf_2$	$C_{12}H_{22}N_2O_4S_2F_6$	623580-02-9	≥99%

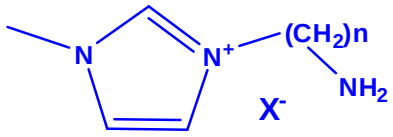
Phosphonium-Based



$P_{2,4,4,4}Br$	$C_{14}H_{32}BrP$	7392-50-9	≥99%
$P_{2,4,4,4}NTf_2$	$C_{16}H_{32}PNO_4S_2F_6$	1346459-15-1	≥99%
$P_{4,4,4,4}Br$	$C_{16}H_{36}PBr$	3115-68-2	≥99%
$P_{4,4,4,4}NTf_2$	$C_{18}H_{36}PNO_4S_2F_6$	547718-93-4	≥99%
$P_{6,4,4,4}Br$	$C_{18}H_{40}PBr$	105890-71-9	≥99%
$P_{6,4,4,4}NTf_2$	$C_{20}H_{40}PNO_4S_2F_6$	1142952-65-5	≥99%
$P_{8,4,4,4}Br$	$C_{20}H_{44}PBr$	57702-65-5	≥99%
$P_{10,4,4,4}Br$	$C_{22}H_{48}PBr$	99045-50-8	≥98%
$P_{12,4,4,4}Br$	$C_{24}H_{52}PBr$	15294-63-0	≥98%
$P_{14,4,4,4}Br$	$C_{26}H_{56}PBr$	15193-40-5	≥98%

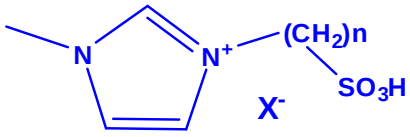
Functionalized-Based

Amido-Functionalized

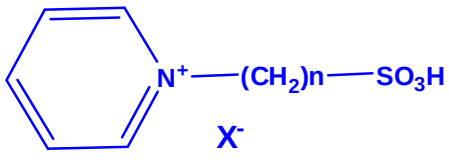


[AEtMIm]Br	$C_6H_{12}N_3Br$	1065505-47-6	≥98%
[APMIm]Br	$C_7H_{14}N_3Br$	914770-45-9	≥98%
[APMIm]BF_4	$C_7H_{14}N_3BF_4$	914770-49-3	≥98%
[APMIm]PF_6	$C_7H_{14}N_3PF_6$	914770-48-2	≥98%
[APMIm]NTf_2	$C_9H_{14}N_4O_4S_2F_6$	1013932-26-7	≥98%
[APMIm]NO_3	$C_7H_{14}N_4O_3$	2170331-12-9	≥98%

Sulfo Acid-Functionalized

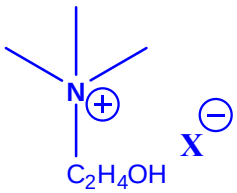


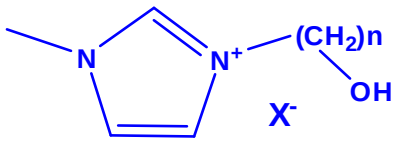
[$PrSO_3$HMIm] Cl	$C_7H_{13}N_2O_3SCl$	1034558-51-4	≥99%
[$PrSO_3$HMIm] HSO_4	$C_7H_{14}N_2S_2O_7$	916479-93-1	≥99%
[$PrSO_3$HMIm] OTf	$C_7H_{13}N_2S_2O_6F_3$	699009-10-4	≥99%
[BSO_3HMIm] Cl	$C_8H_{15}N_2O_3SCl$	913842-96-3	≥99%
[BSO_3HMIm] HSO_4	$C_8H_{16}N_2S_2O_7$	827320-59-2	≥99%
[BSO_3HMIm] H_2PO_4	$C_8H_{17}N_2SPO_7$	920537-20-8	≥99%
[BSO_3HMIm] OTf	$C_8H_{15}N_2S_2O_6F_3$	657414-80-7	≥99%



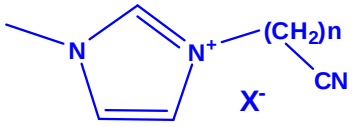
[$PrSO_3$]Py	$C_8H_{11}NO_3S$	15471-17-7	≥99%
[BSO_3]Py	$C_9H_{13}NO_3S$	21876-43-7	≥98%
[BSO_3]Py.HSO_4	$C_9H_{15}NO_7S_2$	827320-61-6	≥98%
[BSO_3]Py. OTf	$C_{11}H_{14}F_3NO_5S$	855785-75-0	≥98%

Hydroxyl-Functionalized

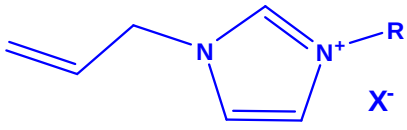
	**[HOEtN$_{1,1,1}$] Cl**	$C_5H_{14}ONCl$	67-48-1	≥99%

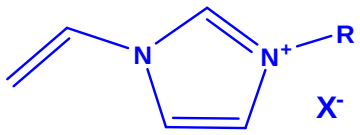
	**[HOEtMIm] Cl**	$C_6H_{11}ON_2Cl$	61755-34-8	≥99%
	[HOEtMIm] BF_4	$C_6H_{11}ON_2BF_4$	374564-83-7	≥99%
	[HOEtMIm] PF_6	$C_6H_{11}ON_2PF_6$	444723-80-2	≥99%
	[HOEtMIm] NO_3	$C_6H_{11}O_4N_3$	1135440-65-1	≥99%
	[HOEtMIm] NTf_2	$C_8H_{11}O_5N_3S_2F_6$	174899-86-6	≥99%
	[HOEtMIm] $N(CN)_2$	$C_8H_{11}ON_5$	1186103-47-8	≥99%
	[HOEtMMIm] Cl	$C_7H_{13}ON_2Cl$	924297-45-0	≥99%
	[HOEtMMIm] NTf_2	$C_9H_{13}O_5N_3S_2F_6$	1119279-81-0	≥99%

Nitrile-Functionalized

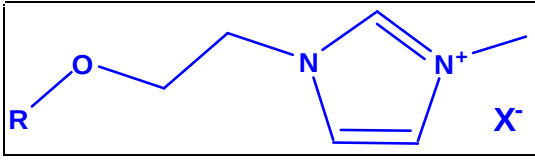
	**[CPMIm] Cl**	$C_8H_{12}N_3Cl$	683224-96-6	≥99%
	[CPMIm] NTf_2	$C_{10}H_{12}N_4O_4S_2F_6$	778593-18-3	≥99%

Vinyl-Functionalized

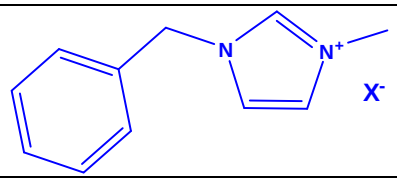
	**[AMIm] Cl**	$C_7H_{11}N_2Cl$	65039-10-3	≥99%
	[AMIm] Br	$C_7H_{11}N_2Br$	31410-07-8	≥99%
	[AMIm] BF_4	$C_7H_{11}N_2BF_4$	851606-63-8	≥99%
	[AMIm] PF_6	$C_7H_{11}N_2PF_6$	861908-19-2	≥99%
	[AMIm] NTf_2	$C_9H_{11}O_4N_3S_2F_6$	655249-87-9	≥99%
	[AVIm] Cl	$C_8H_{11}N_2Cl$	100894-64-2	≥98%
	[AVIm] Br	$C_8H_{11}N_2Br$	1072788-73-8	≥98%

	**[VMIm] I**	$C_6H_9N_2I$	13361-29-0	≥99%
	[VMIm] NTf_2	$C_8H_9F_6N_3O_4S_2$	384347-24-4	≥99%
	[VEIm] Br	$C_7H_{11}N_2Br$	34311-88-1	≥99%
	[VEIm] BF_4	$C_7H_{11}N_2BF_4$	936030-51-2	≥99%
	[VEIm] PF_6	$C_7H_{11}N_2PF_6$	1034364-43-6	≥99%
	[VEIm] NTf_2	$C_9H_{11}F_6N_3O_4S_2$	319476-28-3	≥99%
	[VBIm] Cl	$C_9H_{15}N_2Cl$	657394-63-3	≥99%
	[VBIm] Br	$C_9H_{15}N_2Br$	34311-90-5	≥99%
	[VBIm] BF_4	$C_9H_{15}N_2BF_4$	1033461-43-6	≥99%
	[VBIm] PF_6	$C_9H_{15}N_2PF_6$	915358-85-9	≥99%
	[VBIm] NTf_2	$C_{11}H_{15}F_6N_3O_4S_2$	758716-72-2	≥99%

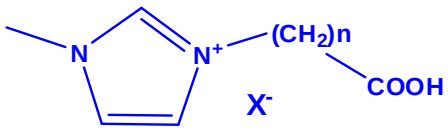
Ether-Functionalized

	**[EOEMIm] NTf_2**	$C_{10}H_{15}F_6N_3O_5S_2$	778593-17-2	≥98%
	[DEME]BF_4	$C_8H_{20}NOBF_4$	464927-72-8	≥99%
	[DEME]NTf_2	$C_{10}H_{20}N_2S_2O_5F_6$	464927-84-2	≥99%

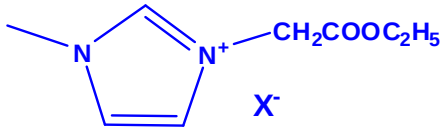
Benzyl-Functionalized

	**[BzMIm] Cl**	$C_{11}H_{13}N_2Cl$	36443-80-8	≥99%
	[BzMIm] BF_4	$C_{11}H_{13}N_2BF_4$	500996-04-3	≥99%
	[BzMIm] PF_6	$C_{11}H_{13}N_2PF_6$	433337-11-2	≥99%
	[BzMIm] NTf_2	$C_{13}H_{13}N_3O_4S_2F_6$	433337-24-7	≥99%

Carboxyl-Functionalized

	**[HOOCMMIm] Cl**	$C_6H_9N_2O_2Cl$	700370-07-6	≥98%
	[HOOCMMIm] Br	$C_6H_9N_2O_2Br$	671793-14-9	≥98%
	[HOOCMMIm] HSO_4	$C_6H_{10}N_2O_6S$	879270-11-8	≥98%
	[HOOCMMIm] NTf_2	$C_8H_{10}N_3O_6S_2F_6$	671793-16-1	≥98%
	[HOOCEMIm] Cl	$C_7H_{11}N_2O_2Cl$	936251-66-0	≥98%
	[HOOCEMIm] Br	$C_7H_{11}N_2O_2Br$	146900-80-3	≥98%
	[HOOCEMIm] NTf_2	$C_9H_{12}N_3O_6S_2F_6$	878197-36-5	≥98%

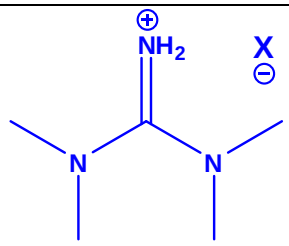
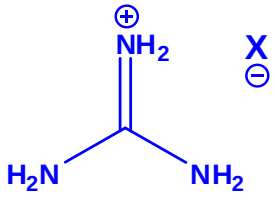
Ester-Functionalized

	**[AOEMIm] Cl**	$C_8H_{13}ClN_2O_2$	464916-25-4	≥98%
	[AOEMIm] BF_4	$C_8H_{13}N_2O_2BF_4$	503439-30-3	≥98%
	[AOEMIm] PF_6	$C_8H_{13}N_2O_2$ PF_6	503439-50-7	≥98%
	[AOEMIm] NTf_2	$C_{10}H_{13}N_3O_6S_2F_6$	503439-62-1	≥98%

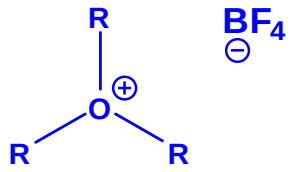
Others-Functionalized

	[EMIm] Cl . n$AlCl_3$			≥98%
	[BMIm] Cl . n$AlCl_3$			≥98%
	[BMIm] Cl . $FeCl_3$			≥98%
	2 [BMIm] Cl . $ZnCl_2$			≥98%

Guanidine-Based

	**[M4Gu] HCl**	$C_5H_{14}N_3Cl$	1729-17-5	≥98%
		$C_7H_{18}N_3O_3$	686349-06-4	≥98%
		$C_3H_{12}N_6O_3$	593-85-1	≥98%
		CH_6ClN_3	50-01-1	≥98%

Onium Salt-Based

	**[Me_3O] BF_4**	$C_3H_9OBF_4$	420-37-1	≥98%
	[Et_3O] BF_4	$C_6H_{15}OBF_4$	368-39-8	≥98%

N-Alkylimidazole-Based

	Im	$C_3H_4N_2$	288-32-4	≥99%
	MIm	$C_4H_6N_2$	616-47-7	≥99%
	EIm	$C_5H_8N_2$	1895435	≥99%
	PIm	$C_6H_{10}N_2$	35203-44-2	≥99%
	BIm	$C_7H_{12}N_2$	4316-42-1	≥99%
	HIm	$C_9H_{16}N_2$	33529-01-0	≥99%
	OIm	$C_{11}H_{20}N_2$	21252-69-7	≥99%
	DIm	$C_{13}H_{24}N_2$	33529-02-1	≥99%
	C_{12}Im	$C_{15}H_{28}N_2$	4303-67-7	≥99%
	C_{14}Im	$C_{17}H_{32}N_2$	54004-47-6	≥99%
	VIm	$C_5H_6N_2$	1072-63-5	≥99%