

List of Ionic Liquids in the Dortmund Data Bank

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The following pages contain the list of ionic liquids currently defined in the Dortmund Data Bank (DDB).

Name	Formula
Tetra-N-butylammonium bromide	C16H36BrN
Tetrahexylammonium perchlorate	C24H52ClNO4
Tetra-N-butylammonium picrate	C22H38N4O7
Tetrapentylammonium bromide	C20H44BrN
Tetra-N-hexylammoniumbromide	C24H52BrN
Tetra-N-butylammoniumiodide	C16H36IN
Tetra-N-pentylammoniumiodide	C20H44IN
Tetra-iso-pentylammoniumiodide	C20H44IN
Tetra-N-hexylammoniumiodide	C24H52IN
Tetra-N-heptylammoniumiodide	C28H60IN
Tetra-N-pentylammoniumthiocyanate	C21H44N2S
Tetra-N-pentylammoniumnitrate	C20H44N2O3
Tetra-N-hexylammoniumtetrafluoroborate	C24H52BF4N
1-Butyl-3-methylimidazolium hexafluorophosphate	C8H15F6N2P
[EMIM] bis(trifluoromethylsulfonyl)imide	C8H11F6N3O4S2
4-Methyl-N-butylpyridinium tetrafluoroborate	C10H16BF4N
1-Butyl-3-methylimidazolium triiodide	C8H15I3N2
1-Ethyl-3-methylimidazolium triiodide	C6H11I3N2
[MMIM] bis(trifluoromethylsulfonyl)imide	C7H9F6N3O4S2
[BMIM] bis(trifluoromethylsulfonyl)imide	C10H15F6N3O4S2
[EMIM] ethylsulfate	C8H16N2O4S
N-Butylpyridinium tetrafluoroborate	C9H14BF4N
[EDMIM] bis(trifluoromethylsulfonyl)imide	C9H13F6N3O4S2
1-n-Octyl-3-methylimidazolium hexafluorophosphate	C12H23F6N2P
1-n-Octyl-3-methylimidazolium tetrafluoroborate	C12H23BF4N2
1-Butyl-3-methylimidazolium nitrate	C8H17N3O3
[EMIM] - hexafluorophosphate	C6H11F6N2P
1-Methyl-3-methyl-imidazolium methylsulfate	C6H12N2O4S
N-Ethylpyridinium bis(trifluoromethylsulfonyl)imide	C9H10F6N2O4S2
Tetrabutylammonium chloride	C16H36ClN
1-Ethyl-3-methyl-1H-imidazolium tetrafluoroborate	C6H11BF4N2
1-Butylpyridinium bis(trifluoromethylsulfonyl)imide	C11H14F6N2O4S2
1-Butyl-3-methylimidazolium tetrafluoroborate	C8H15BF4N2
[MMIM] methoxyethylsulfate	C8H16N2O5S
1-Butyl-3-methylimidazolium chloride	C8H15ClN2
Tetra-N-butylammonium methanesulfonate	C17H39NO3S
Tetra-N-butylammonium trifluoromethanesulfonate	C17H36F3NO3S

Name	Formula
Tetra-N-butylammonium benzenesulfonate	C22H41NO3S
Tetra-N-butylammonium pentafluorobenzenesulfonate	C22H36F5NO3S
Tetra-N-butylammonium butanesulfonate	C20H45NO3S
Tetra-N-butylammonium perfluorobutanesulfonate	C20H36F9NO3S
Tetra-N-butylammonium octanesulfonate	C24H53NO3S
Tetra-N-butylammonium perfluorooctanesulfonate	C24H36F17NO3S
Tri-N-butylmethylammonium butanesulfonate	C17H39NO3S
Tri-N-butylmethylammonium perfluorobutanesulfonate	C17H30F9NO3S
Tri-N-butylmethylammonium octanesulfonate	C21H47NO3S
Tri-N-butylmethylammonium perfluorooctanesulfonate	C21H30F17NO3S
1-n-Pentyl-3-methylimidazolium hexafluorophosphate	C9H17F6N2P
1-Hexyl-3-methylimidazolium hexafluorophosphate	C10H19F6N2P
1-n-Heptyl-3-methylimidazolium hexafluorophosphate	C11H21F6N2P
1-Butyl-3-methylimidazolium iodide	C8H15IN2
1,3-Dimethylimidazolium tetrachloroaluminate	C5H10AlCl4N2
1-Ethyl-3-methylimidazolium tetrachloroaluminate	C6H12AlCl4N2
1-Propyl-3-methylimidazolium tetrachloroaluminate	C7H14AlCl4N2
1-Butyl-3-methylimidazolium tetrachloroaluminate	C8H16AlCl4N2
1,3-Dibutylimidazolium tetrachloroaluminate	C11H22AlCl4N2
1-Ethyl-3-methylimidazolium nitrate	C6H13N3O3
1-Ethyl-3-methylimidazolium nitrite	C6H11N3O2
1-Hexyl-3-methylimidazolium chloride	C10H19ClN2
1-Octyl-3-methylimidazolium chloride	C12H23ClN2
Tetra-N-butylammonium ethanesulfonate	C18H41NO3S
Tetra-N-butylammonium 4-toluenesulfonate	C23H43NO3S
Tetra-N-butylammonium nitrite	C16H36N2O2
Tetra-N-butylammonium tetra-N-butylborate	C32H72BN
Tetra-N-butylammonium sulfamate	C16H38N2O3S
Tetra-N-butylammonium nitrate	C16H36N2O3
Tetra-N-butylammonium thiocyanate	C17H36N2S
Tetra-N-butylammonium pentacyanopropenide	C24H36N6
1-Ethyl-3-methylimidazolium chloride	C6H11ClN2
Pyridinium ethoxyethylsulfate	C9H15NO5S
1-Butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide	C11H20F6N2O4S2
1-Methyl-4-octylpyridinium chloride	C14H24ClN
1-Methyl-4-octylpyridinium bromide	C14H24BrN
1-Methyl-4-octylpyridinium iodide	C14H24IN

Name	Formula
[EMIM] - hexafluoroniobate	C6H11F6N2Nb
[EMIM] - hexafluorotantalate	C6H11F6N2Ta
1-Methyl-3-methyl-imidazolium dimethylphosphate	C7H15N2O4P
1-Decyl-3-methylimidazolium chloride	C14H27ClN2
[OMIM] bis(trifluoromethylsulfonyl)imide	C14H23F6N3O4S2
1-Hexyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide	C12H19F6N3O4S2
1-Hexyl-3-methylimidazolium tetrafluoroborate	C10H19BF4N2
1-Dodecyl-3-methylimidazolium chloride	C16H31ClN2
[PMIM] bis(trifluoromethylsulfonyl)imide	C9H13F6N3O4S2
[PMIM] - hexafluorophosphate	C7H13F6N2P
C8F13MIMTF2N	C14H10F19N3O4S2
1-Butyl-3-phenylimidazoliumbis[trifluoromethylsulfonyl]amide	C15H17F6N3O4S2
1,4-Dibutyl-3-phenylimidazoliumbis[trifluoromethylsulfonyl]amide	C19H25F6N3O4S2
1-Butyl-3-methylimidazolium bromide	C8H15BrN2
1,3-Dimethylimidazolium chloride	C5H9ClN2
1-Methyl-3-propylimidazolium chloride	C7H13ClN2
1,3-Dibutylimidazolium chloride	C11H21ClN2
1,2,3-Trimethylimidazolium chloride	C6H11ClN2
1-Ethyl-3-methylimidazolium bromide	C6H11BrN2
1-Ethyl-3-methylimidazolium iodide	C6H11IN2
1-i-Propyl-3-methylimidazolium iodide	C7H13IN2
1-Ethyl-2,3-dimethylimidazolium chloride	C7H13ClN2
1-Ethyl-2,3-dimethylimidazolium bromide	C7H13BrN2
1-Propyl-2,3-dimethylimidazolium chloride	C8H15ClN2
2,4,5-Trimethylimidazolium chloride	C6H11ClN2
Pentamethylimidazolium iodide	C8H15IN2
Tetraethylammonium tetrafluoroborate	C8H20BF4N
Tetraethylammonium hexafluorophosphate	C8H20F6NP
1-i-Propyl-3-methyl-imidazolium-hexafluorophosphate	C7H13F6N2P
1-Ethyl-2,3-dimethylimidazolium hexafluorophosphate	C7H13F6N2P
1-Propyl-2,3-dimethylimidazolium hexafluorophosphate	C8H15F6N2P
Pentamethylimidazolium hexafluorophosphate	C8H15F6N2P
1-Ethyl-3-methylimidazolium hexafluoroarsenate	C6H11AsF6N2
Tetraethylammonium bis(trifluoromethylsulfonyl)imide	C10H20F6N2O4S2
Tetra-n-butylammonium bis(trifluoromethylsulfonyl)imide	C18H36F6N2O4S2
1-i-Propyl-3-methyl-imidazolium bis(trifluoromethylsulfonyl)imide	C9H13F6N3O4S2
2,3-Dimethyl-1-n-propylimidazolium bis(trifluoromethylsulfonyl)imide	C10H15F6N3O4S2

Name	Formula
Pentamethylimidazolium bis(trifluoromethylsulfonyl)imide	C10H15F6N3O4S2
Tetraethylammonium bis(pentafluoroethylsulfonyl)imide	C12H20F10N2O4S2
1-Ethyl-3-methylimidazolium bis(pentafluoroethylsulfonyl)imide	C10H11F10N3O4S2
1-Ethyl-2,3-dimethylimidazolium bis(pentafluoroethylsulfonyl)imide	C11H13F10N3O4S2
1-n-Propyl-2,3-dimethylimidazolium bis(pentafluoroethylsulfonyl)imide	C12H15F10N3O4S2
Tetraethylammonium tris(trifluoromethylsulfonyl)methide	C12H20F9NO6S3
Tetra-n-butylammonium tris(trifluoromethylsulfonyl)methide	C20H36F9NO6S3
1-Ethyl-3-methylimidazolium tris(trifluoromethylsulfonyl)methide	C10H11F9N2O6S3
N,N-Dimethylpyrrolidinium bis(trifluoromethylsulfonyl)imide	C8H14F6N2O4S2
N-Methyl-N-Ethylpyrrolidinium bis(trifluoromethylsulfonyl)imide	C9H16F6N2O4S2
N-Methyl-N-n-propylpyrrolidinium bis(trifluoromethylsulfonyl)imide	C10H18F6N2O4S2
1-Ethyl-3-methylimidazolium tetrabromoaluminate(III)	C6H11AlBr4N2
1-Butyl-3-methylimidazolium methylsulfate	C9H18N2O4S
1-Butyl-3-methylimidazolium trifluoromethanesulfonate	C9H15F3N2O3S
1-Butyl-3-methylimidazolium tetrachloroferrate	C8H15Cl4FeN2
[EMIM] trifluoromethylsulfate	C7H11F3N2O3S
[EMIM] dicyanamide	C8H11N5
Tri-n-hexyl-n-tetradecylphosphonium chloride	C32H68ClP
1-(2-Hydroxyethyl)-3-methylimidazolium tetrafluoroborate	C6H11BF4N2O
1-Ethyl-3-methylimidazolium tetrachlorogallate	C6H12Cl4GaN2
Triethylamine hydrochloride 2[AlCl3]	C6H16Al2Cl7N
1-Hexyloxymethyl-3-methylimidazolium tetrafluoroborate	C11H21BF4N2O
1-Hexyloxymethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide	C13H21F6N3O5S2
1-Butyl-3-methylimidazolium 2-(2-methoxyethoxy) ethyl sulfate	C13H26N2O6S
1-Hexyl-3-methylimidazolium trifluoromethylsulfonat	C11H19F3N2O3S
1-Octyl-3-methylimidazolium trifluoromethylsulfonat	C13H23F3N2O3S
N-Ethyl-4-(N',N'-dimethylammonium)pyridinium bis(trifluoromethylsulfonyl)imide	C11H15F6N3O4S2
N-Butyl-4-(N',N'-dimethylammonium)pyridinium bis(trifluoromethylsulfonyl)imide	C13H19F6N3O4S2
N-Hexyl-4-(N',N'-dimethylammonium)pyridinium bis(trifluoromethylsulfonyl)imide	C15H23F6N3O4S2