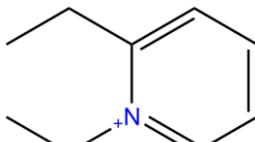
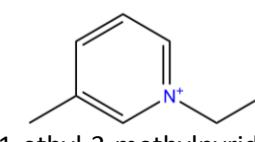
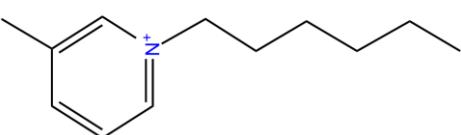
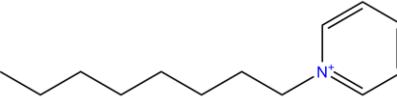
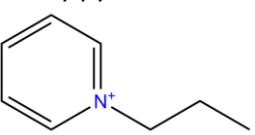
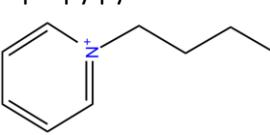
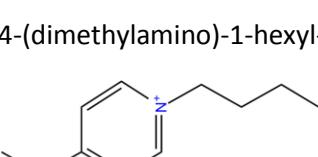
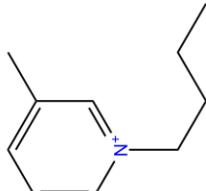
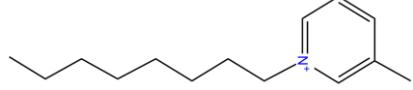
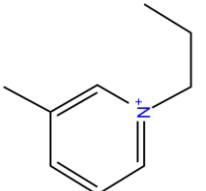
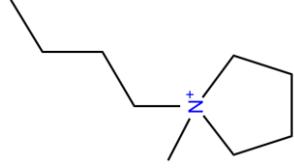
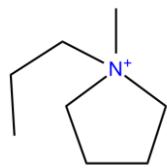
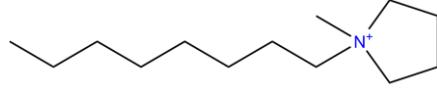
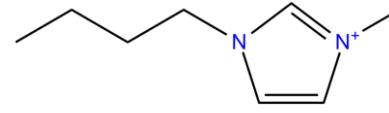
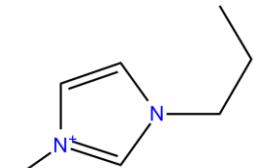
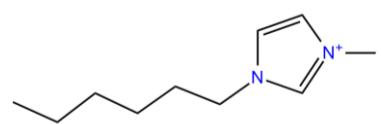
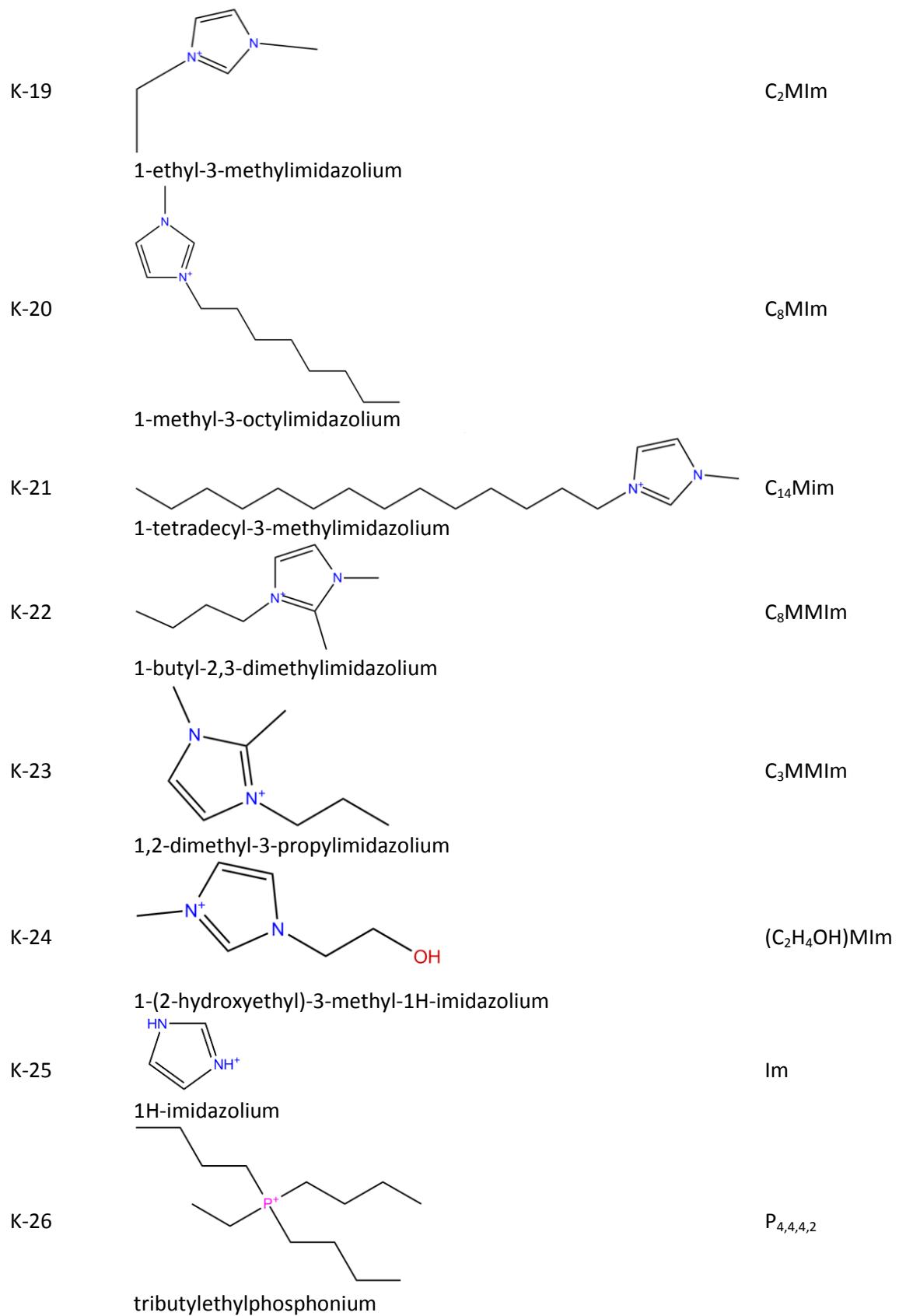
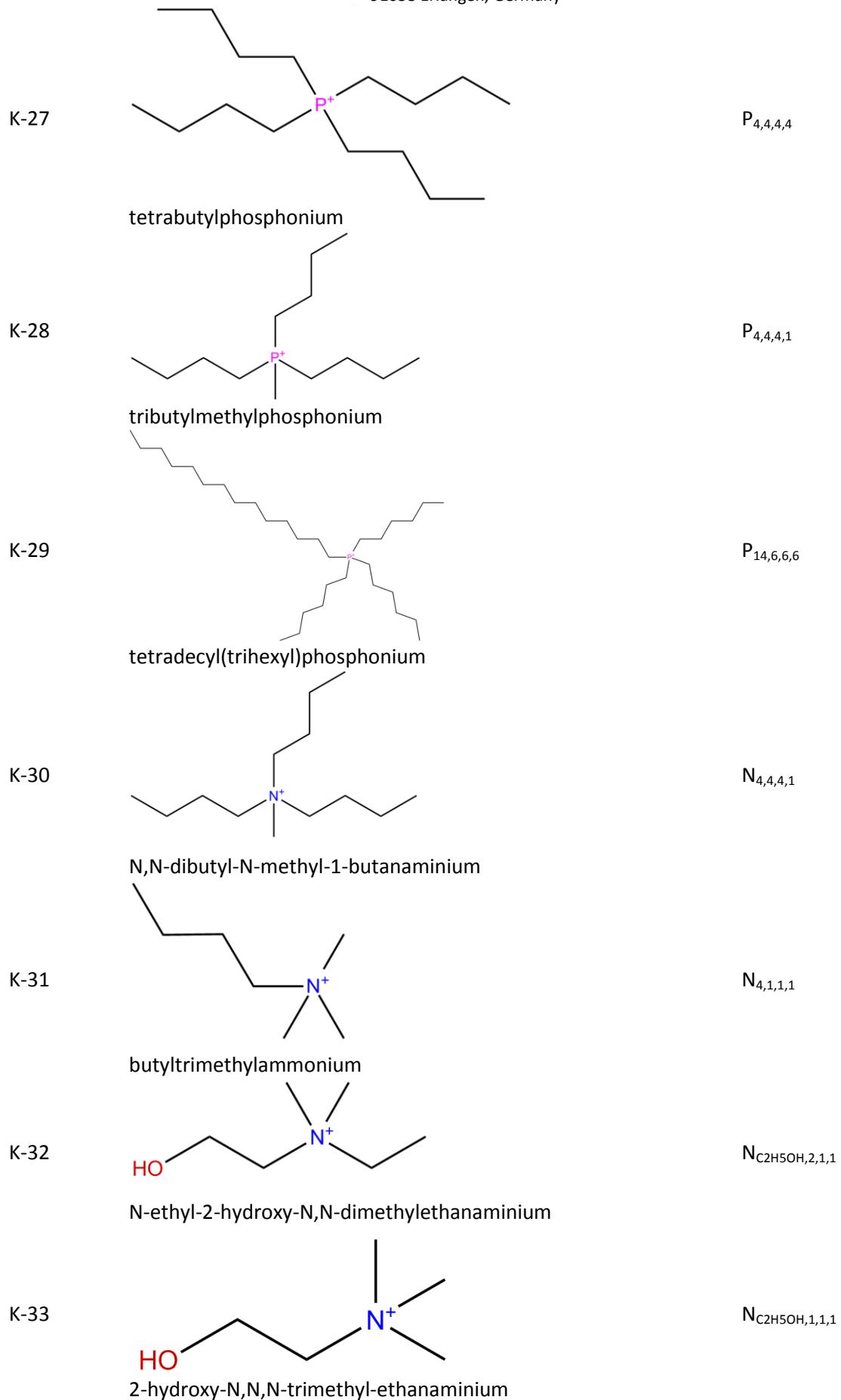


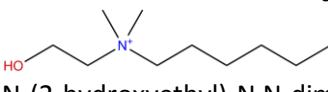
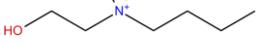
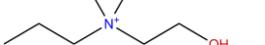
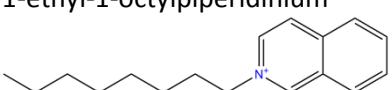
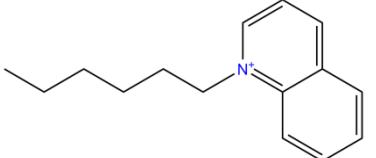
## cations

K-1		(C <sub>2</sub> ) <sub>2</sub> Py
	1,2-diethylpyridinium	
K-2		C <sub>2</sub> MPy
	1-ethyl-3-methylpyridinium	
K-3		C <sub>6</sub> MPy
	1-hexyl-3-methylpyridinium	
K-4		C <sub>8</sub> Py
	1-octylpyridinium	
K-5		C <sub>3</sub> Py
	1-propylpyridinium	
K-6		C <sub>4</sub> Py
	1-butylpyridinium	
K-7		C <sub>6</sub> (CH <sub>3</sub> N CH <sub>3</sub> )Py
	4-(dimethylamino)-1-hexyl-pyridinium	
K-8		C <sub>4</sub> (CH <sub>3</sub> N CH <sub>3</sub> )Py
	n-butyl-4-(n',n'-dimethylammonium)pyridinium	
K-9		C <sub>2</sub> (CH <sub>3</sub> N CH <sub>3</sub> )Py
	n-ethyl-4-(n',n'-dimethylammonium)pyridinium	

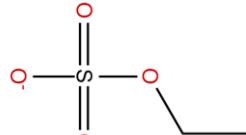
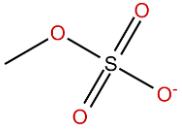
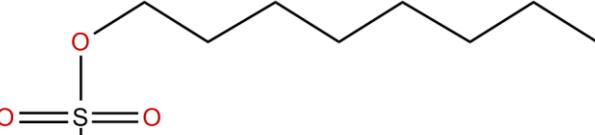
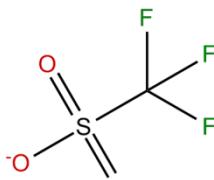
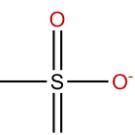
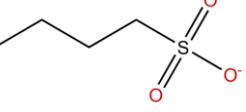
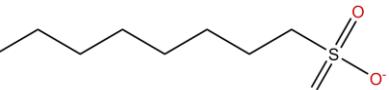
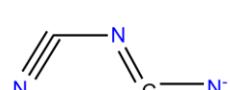
K-10		C <sub>4</sub> MPy
	1-butyl-3-methylpyridinium	
K-11		C <sub>8</sub> MPy
	N-octyl-3-methylpyridinium	
K-12		C <sub>3</sub> MPy
	3-methyl-1-propylpyridinium	
K-13		C <sub>4</sub> MPyr
	1-butyl-1-methylpyrrolidinium	
K-14		C <sub>3</sub> MPyr
	1-methyl-1-propylpyrrolidinium	
K-15		C <sub>8</sub> MPyr
	1-methyl-1-octylpyrrolidinium	
K-16		C <sub>4</sub> MIIm
	1-butyl-3-methylimidazolium	
K-17		C <sub>3</sub> MIIm
	1-methyl-3-propylimidazolium	
K-18		C <sub>6</sub> MIIm
	1-hexyl-3-methylimidazolium	





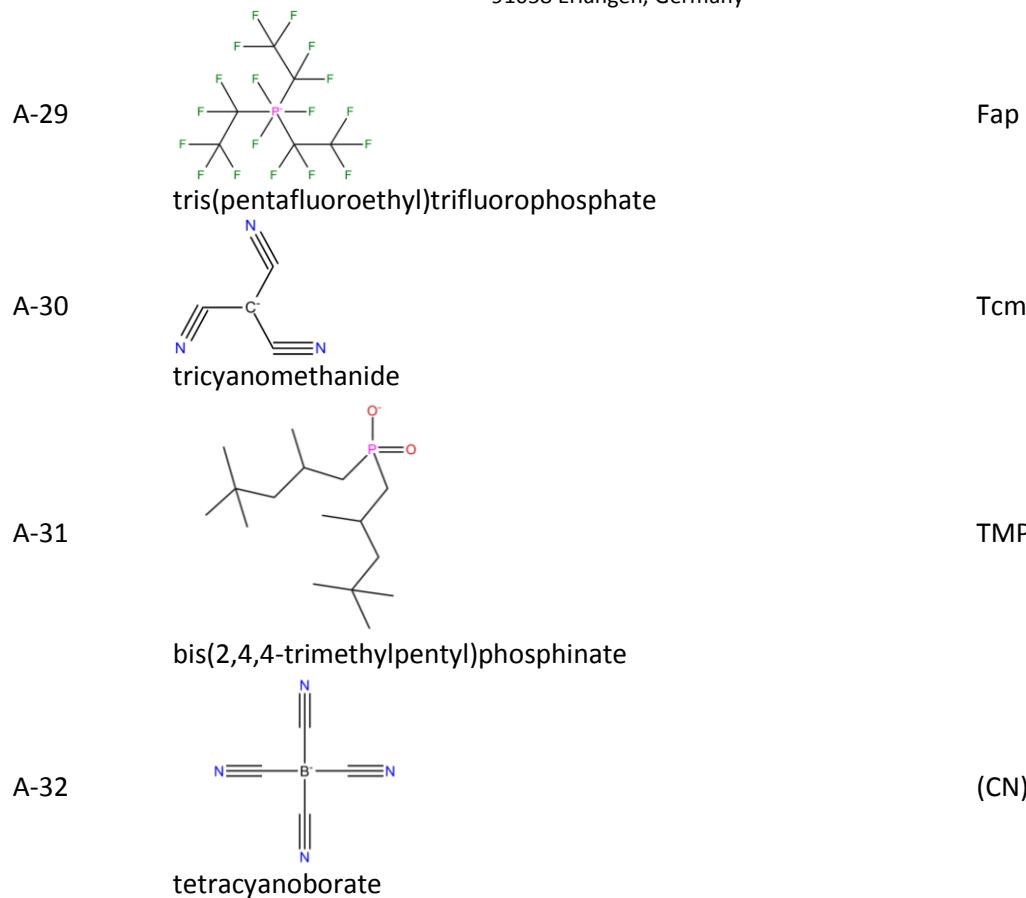
K-34		$N_{6,C_2H_5OH,1,1}$
K-35		$N_{4,C_2H_5OH,1,1}$
K-36		$N_{3,C_2H_5OH,1,1}$
K-37		$C_8C_2Pip$
K-38		$C_8Quin$
K-39		$C_6Quin$

## anions

A-1		<chem>EtSO4</chem>
A-2		<chem>MeSO4</chem>
A-3		<chem>C8SO4</chem>
A-4		<chem>CF3SO3</chem>
A-5		<chem>MeSO3</chem>
A-6		<chem>C4SO3</chem>
A-7		<chem>C8SO3</chem>
A-8		Dca
A-9		Br
	<b>bromide</b>	

A-10		<chem>NO3</chem>
	nitrate	
A-11		<chem>BF4</chem>
	tetrafluoroborate	
A-12		<chem>C4O8B</chem>
	bis(oxalato)borate	
A-13		Tos
	tosylate	
A-14		<chem>NTF2</chem>
	bis[(trifluoromethyl)sulfonyl]imide	
A-15		<chem>(C2H5)2PO4</chem>
	diethylphosphate	
A-16		Tca
	thiocyanate	
A-17		<chem>HSO4</chem>
	hydrogen sulfate	
A-18		Ser
	L-serinate	
A-19		Tau
	2-aminoethanesulfonate	
A-20		Lys
	L-lysinate	

A-21		Thr
A-22		Val
A-23		Cys
A-24		PF6
A-25		OTfa
A-26		OAc
A-27		OCE
A-28		COB



## mathematical definitions of error types

Absolute average error (AAE):

$$AAE = \frac{1}{n} \sum_{i=1}^n |c_{P,i}^{exp.} - c_{P,i}^{calc.}|$$

Absolute average percentage error (AAPE):

$$AAPE = \frac{1}{n} \cdot 100\% \sum_{i=1}^n \frac{|c_{P,i}^{exp.} - c_{P,i}^{calc.}|}{c_{P,i}^{exp.}}$$

root mean square deviation (RMSD):

$$RMSE = \sqrt{\frac{\sum_{i=1}^n (c_{P,i}^{exp.} - c_{P,i}^{calc.})^2}{n}}$$

combined uncertainty:

$$combined\ uncertainty = \frac{\sum_{i=1}^n \sqrt{\Delta c_{P,i}^{exp.-uncertainty}^2 + \left( \frac{|c_{P,i}^{exp.} - c_{P,i}^{calc.}|}{c_{P,i}^{exp.}} \right)^2}}{n}$$