



Catalogue 2013

METALLIC SALTS

REF.	SELS	QUANTITE
M1133B	Sodium (I) bis(fluorosulfonyl)imide 99.7% NaN(SO ₂ F) ₂ ; fw : 203,30 H ₂ O ≤ 50ppm	10g
		50g
S001	Lithium (I) Bis(trifluoromethanesulfonyl)imide 99% LiC ₂ F ₆ NO ₄ S ₂ ; fw : 287,10 H ₂ O ≤ 5000ppm	50g
		100g
		500g
		1kg
S001A	Lithium (I) Bis(trifluoromethanesulfonyl)imide 99.9% LiC ₂ F ₆ NO ₄ S ₂ ; fw : 287,10 Extra-Dry H ₂ O ≤ 20ppm	50g
		100g
		250g
M1108C	Sodium(I) Bis(trifluoromethanesulfonyl)imide 99.5% NaC ₂ F ₆ NO ₄ S ₂ ; fw : 303,13 H ₂ O ≤ 20ppm	10g
		50g
		250g
		500g
		1kg
M1208C	Magnésium(II) Bis(trifluoromethanesulfonyl)imide 99.5% Mg(C ₂ F ₆ NO ₄ S ₂) ₂ ; fw : 584,59 H ₂ O ≤ 250ppm	10g
		50g
		250g
		500g
		1kg
M1908C	Potassium(I) Bis(trifluoromethanesulfonyl)imide 99.5% KC ₂ F ₆ NO ₄ S ₂ ; fw : 319,14 H ₂ O ≤ 250ppm	10g
		50g
		250g
		500g
		1kg
M2008C	Calcium(II) Bis(trifluoromethanesulfonyl)imide 99.5% Ca(C ₂ F ₆ NO ₄ S ₂) ₂ ; fw : 600,38 H ₂ O ≤ 250ppm	10g
		50g
		250g
		500g
		1kg
M2508C	Manganèse(II) Bis(trifluoromethanesulfonyl)imide 99.5% Mn(C ₂ F ₆ NO ₄ S ₂) ₂ ; fw : 615,22 H ₂ O ≤ 250ppm	10g
		50g
		250g
		500g
M2708C	Cobalt(II) Bis(trifluoromethanesulfonyl)imide 99.5% Co(C ₂ F ₆ NO ₄ S ₂) ₂ ; fw : 619,28 H ₂ O ≤ 20ppm	10g
		50g
		250g
M2808C	Nickel(II) Bis(trifluoromethanesulfonyl)imide 99.5% Ni(C ₂ F ₆ NO ₄ S ₂) ₂ ; fw : 618,98 H ₂ O ≤ 20ppm	10g
		50g
		250g

REF.	SELS	QUANTITE
M2908C	Cuivre(II) Bis(trifluoromethanesulfonyl)imide 99.5% $\text{Cu}(\text{C}_2\text{F}_6\text{NO}_4\text{S}_2)_2$; fw : 623,82 $\text{H}_2\text{O} \leq 20\text{ppm}$	10g
		50g
		250g
		500g
		1kg
M3008C	Zinc(II) Bis(trifluoromethanesulfonyl)imide 99.5% $\text{Zn}(\text{C}_2\text{F}_6\text{NO}_4\text{S}_2)_2$; fw : 697,61 $\text{H}_2\text{O} \leq 20\text{ppm}$	10g
		50g
		250g
		500g
		1kg
M5508C	Césium(I) Bis(trifluoromethanesulfonyl)imide 99.5% $\text{CsC}_2\text{F}_6\text{NO}_4\text{S}_2$; fw : 413,05 $\text{H}_2\text{O} \leq 20\text{ppm}$	10g
		50g
		250g
M5608C	Baryum(II) Bis(trifluoromethanesulfonyl)imide 99.5% $\text{Ba}(\text{C}_2\text{F}_6\text{NO}_4\text{S}_2)_2$; fw : 697,61 $\text{H}_2\text{O} \leq 250\text{ppm}$	10g
		50g
		250g
		500g
		1kg
M5708C	Lanthanum(III) bis(trifluoromethanesulfonyl)imide 99.5% $\text{La}(\text{C}_2\text{F}_6\text{NO}_4\text{S}_2)_3$; fw : 979,42 $\text{H}_2\text{O} \leq 20\text{ppm}$	10g
		50g
		250g
M5808C	Cérium(III) bis(trifluoromethanesulfonyl)imide 99.5% $\text{Ce}(\text{C}_2\text{F}_6\text{NO}_4\text{S}_2)_3$; fw : 983,54 $\text{H}_2\text{O} \leq 20\text{ppm}$	10g
		50g
		250g

Custom Formulations:

Custom-made formulations based on these salts dissolved in ionic liquids and/or conventional organic solvents can be provided on demand.



For more information or BULK packing, please contact us: Sales@solvionic.com

Applications – Metallic Salts

- Electrolytes for batteries (Ca-ion, Na-ion, Mg-ion, Li-ion, ...)
- Electrodeposition of oxides and metals
- Catalysis

Examples

Nanocrystals electrodeposition of metallic oxides

Electrodeposition of ZnO in Ionic liquid environment^[1]

ZnO is deposited from an electrolyte of (Zn II) TFSI Zinc (II) Bis(trifluoromethanesulfonyl) imide (Ref. M3008c) dissolved in 1-butyl-3-methylpyrrolidinium Bis(trifluoromethanesulfonyl)imide (Pyr14TFSI - ref. Pyr0408a) saturated in O₂.

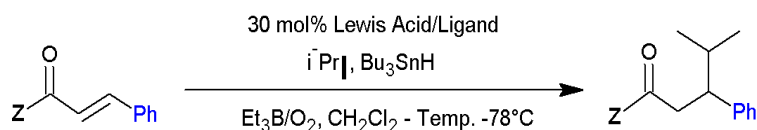
The anion of the Ionic liquid and the salt being the same (TFSI), the following advantages are observed:

- Good solubility of Zinc salt (II)
- Homogeneous solution in Zn (II)
- No formation of hydroxides of Zn

Catalysis

Reaction enantioselective catalysed by a metallic salt triflimide^[2]

Mukund P. Sibi and Al showed that triflimides salts are Lewis's excellent Acids and of reagent ideal for the chiral catalysis.



Triflimides salts favor:

- Lewis's excellent Acids
- Chemical efficiency & enantioselective
- Good stability
- Strong solvent power with the not polar organic solvents

Z	Lewis Acid	Yield, %	ee, %
	Mg(NTF2) ₂	99	98
	Mg(ClO4) ₂	91	94
	Mg(NTF2) ₂	95	98
	Mg(ClO4) ₂	87	98
	Mg(NTF2) ₂	80	14
	Mg(ClO4) ₂	62	02

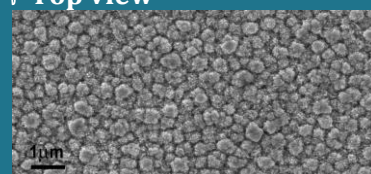
[1] E. Azaceta et al., *Electrochem. Commun.* 11 (2009) p.2184

[2] Mukund P. Sibi et al., *Tetrahedron : Asymmetry* 14 (2003) 2879-2882

Nanocrystalline film ZnO electrodeposited on FTO

Deposit obtained in 150°C in Ionic liquid environment.

Top view



Seen in section

