The invention claimed is:

1. Compound of formula I,

$M^{II}_2M^{III}M^{V}O_6:Eu^{2+}$ I

wherein

M^{II} denotes one or more bivalent elements selected from the group of Be, Mg, Ca, Sr, Ba, and Zn

M^{III} denotes one or more trivalent elements selected from the group of B, Al, Ga, In, Tl, Sc, Y, La, Ce, Gd, and Lu, and

M^{V} denotes one or more pentavalent elements selected from the Group of V, Nb, Ta, As, Sb, and Bi.

2. The compound according to claim 1, characterized in that the compound of formula I is selected from the formula Ia,

$M^{II}_{(2-x)}M^{III}M^{V}O_6:EU^{2+}_x$ Ia

wherein

M^{II}, M^{III}, and M^{V} have the same meanings as given in claim 1, and $0 < x \leq 2$.

3. The compound according to claim 1, characterized in that the compound of formula I is selected from the formula Ia-1,

$M^{II}_{(2-x)}\ (M^{1}_{(a-b)}M^{2}_{b})M^{V}O_6:Eu^{2+}_x$ Ia-1

wherein

x, M^{II} and M^{V} have the same meanings as given above in claim 1,

M^1 and M^2 denote each and independently from another one element selected from B, Al, Ga, In, Tl, Sc, Y, La, Ce, Gd, or Lu, whereby $M^1 \neq M^2$,

$0< a \leq 1$, $0 \leq b <1$, and

$a+b=1$.

4. The compound according to claim 3, characterized in that b=0.

5. The compound according to claim 3, characterized in that M^1 denotes In.

6. The compound according to claim 1, characterized in that M^{II} denotes at least one bivalent element selected from Be, Mg, Ca, Sr, Ba, and/or Zn.

7. The compound according to claim 1, characterized in that M^V denotes one pentavalent element selected from V, Nb, Ta, As, Sb, or Bi.

8. The compound according to claim 2, characterized in that $0< x< 0.3$.

9. A process for the preparation of a compound according to claim 1, which includes the following process steps:

a) mixing at least one salt containing Eu, one or more salts comprising at least element selected from of Be, Mg, Ca, Sr, Ba, and Zn, one or more salts comprising at least one element selected from B, Al, Ga, In, Tl, Sc, Y, La, Ce, Gd, and Lu, one or more salts comprising at least one element selected from V, Nb, Ta, As, Sb, and Bi, at a predetermined molar ratio;

b) optionally grinding the mixture;

c) performing a primary heat treatment on the mixture in a temperature range of 800 to 1300°C under an oxidative atmosphere; and

d) performing a secondary heat treatment on the mixture in a temperature range of 1200 to 1700°C under a reductive atmosphere.

10. The process according to claim 9, wherein the salts in step a) are selected from the group of oxides, halides, hydrogensulfates, or carbonates.

11. A method for the partial or complete conversion of the blue or near-UV emission comprising converting said emission with a phosphor according to claim 1.

12. An emission-converting material comprising the compound according to claim 1.

13. A light source, comprising a primary light source with an emission maximum in the range of 300 nm to 500 nm, and a compound according to claim 1.

14. The light source according to claim 13 wherein the primary light source is a luminescent indium aluminium gallium nitride, and/or indium gallium nitride.

15. An Illumination unit comprising at least one light source according to claim 13.

16. A light source, comprising a primary light source with an emission maximum in the range of 300 nm to 500 nm, and an emission-converting material according to claim 12.

17. The light source according to claim 16 wherein the primary light source is a luminescent indium aluminium gallium nitride, and/or indium gallium nitride.

18. An Illumination unit comprising at least one light source according to claim 17.