

Organosulfur gold compounds, a process for their production and their use

Abstract

Various organosulfur gold compounds and their use for the production of gold decorations are known.

The invention relates to new organosulfur gold compounds, to a process for their production and to their use for the production of preparations for producing a gold decoration on firing-resistant substrates.

The gold compounds according to the invention are obtainable from monogold(I) dimercaptosuccinic acid and compounds of similar structure by dissolution thereof in water in the presence of a base and precipitation by acidification and, if desired, repetition of the dissolving and precipitating steps. The gold compounds according to the invention are characterized by a gold content of 60 to 90% by weight, an atomic ratio of greater than 0.7 to 4:1 and by electrochemical non-reducibility up to -1.8 volts. Preferred gold compounds are soluble in water and are suitable as a constituent of organic/aqueous and exclusively aqueous bright and burnished gold preparations for the decoration of glass, porcelain and ceramic.

FIGURE 3.