

organically modified silica

Also contains definition of: organically modified silicate

Silica modified by organic groups.

Notes:

1. Organically-modified silicas can be obtained by sol-gel processing.
2. An organically modified silica is of general structure $(\text{RO})_a\text{Si}(\text{B})_b(\text{C})_c(\text{D})_d$, where $(a+b+c+d)=4$, R is any alkyl, aryl or heteroaryl group and B, C and D are generally organic groups.
3. Though it is a commonly used acronym for organically modified silica, 'Ormosil' is a trademark and as such its terminological use is discouraged.

Source:

PAC, 2007, 79, 1801 (*Definitions of terms relating to the structure and processing of sols, gels, networks, and inorganic-organic hybrid materials (IUPAC Recommendations 2007)*) on page 1816