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Strontium formate dihydrate Data Sheet

Catalog sizes	**100g**, Listed as 100g Strontium formate dihydrate, 100FO25 **500g**, Listed as Strontium formate dihydrate, 500FO25 **1kg**, Listed as 1kg Strontium formate dihydrate, 1000FO25
Category	Formate and Acetate Salts
Product specification	White crystalline powder • Product ID : FO25 • Purity : 98%+ • CAS : 6160-34-5 • Molecular formula : C2H6SrO6 • MW : 213.69g/mol • MP : 70-74C • Flash point : 27-33C
Product description	In general, formates are excellent precursors for production of ultra-pure catalysts, ceramics, and nanoparticles. Strontium formate dihydrate is a water-soluble crystalline solid that decomposes to strontium oxide on heating. Strontium formate dihydrate exhibits marked nonlinear optical (NLO) properties comparable to that of the best nonlinear materials used for efficient frequency doubling of a YAG:Nd laser and for the phase matched SHG for ruby laser. Strontium formate dihydrate can be doped with materials to modulate its NLO response. In signaling devices, strontium formate can also be used for producing red fire in pyrotechnics such as railroad fuses, emergency flares, signal rockets and fireworks. Military pyrotechnic applications of strontium include ammunition, military cartridges, and marine hazard signals. Non-military pyrotechnic applications include warning devices and fireworks. The strontium content in military flares can be as high as 40wt% by weight. Today, pyrotechnics still accounts for 30% of the use of primary strontium compounds. Common uses can summarized as follows: • Supramolecular engineering reagent • NLO candidate material • Double salt reagent • Ceramics and specialty strontium oxide precursor • Pyrotechnic agent