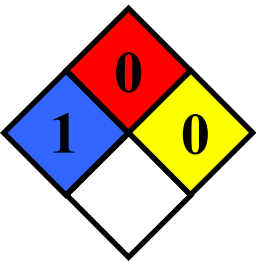


## SODIUM SULFATE ANHYDROUS

### Application Notes:

**NuGenTec Inorganic Chemical Group (NICG) Sodium Sulfate Anhydrous**, is the sodium salt of sulfuric acid. Anhydrous, it is a white crystalline solid of formula  $\text{Na}_2\text{SO}_4$ . Sodium sulfate is mainly used for the manufacture of detergents and in the Kraft process of paper pulping. In the laboratory, anhydrous sodium sulfate is widely used as an inert drying agent, for removing traces of water from organic solutions. Lately, sodium sulfate has been found effective in dissolving very finely electroplated micrometer gold that is found in gold electroplated hardware on electronic products such as pins, and other connectors and switches. It is safer and cheaper than other reagents used for gold recovery, with little concern for adverse reactions or health effects.

### Typical Parameters:

CAS Number(s)	7757-82-6, 7727-73-3 (decahydrate)	<b>NFPA 704</b>
Physical State & Appearance	White crystalline Powder	
Molecular Formula	$\text{Na}_2\text{SO}_4$	
Formula Weight	142.04	
Flash point	None	
Melting Point	884 °C	
Boiling Point	1429 °C	
RTECS #	WE1650000	
Refractive Index	1.468	

### Specifications:

Grade	ACS
Density	2.664 gm/cc
pH of 5% solution @ 25 °C	Neutral
Bulk Density, #/gal	8.7
Solubility in water	Complete
Assay	99.0% min
Insoluble Matter	0.01% max
Chloride (Cl)	10 ppm max
Nitrogen Compound as (N)	5 ppm max
Arsenic (As)	1 ppm max
Calcium, Magnesium & R2O3 precipitates	200 ppm max
Heavy Metals (Pb)	5 ppm max
Iron (Fe)	10 ppm max



**Availability:** Available in 50 Kg Fiber drums with double liner

**Shipment:** Not Regulated

**Storage:** Keep in a tightly closed container, stored in a cool, dry, ventilated area.

<sup>(1)</sup>**Disposal:** Dispose of in accordance with local, state, & federal regulations. For assistance with disposal contact NuGeneration Technologies at 888-99-Nugen or e-mail: [nicg@nugentec.com](mailto:nicg@nugentec.com).