

**PRODUCT CODE: 191716****Sodium Sulfate anhydrous (USP, BP, Ph. Eur.) pharma grade**

 $\text{Na}_2\text{O}_4\text{S}$ Na_2SO_4

M.= 142,04

CAS [7757-82-6]

EINECS 231-820-9

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PHYSICAL DATA: crystals, crystalline powder, White, Soluble in water 162 g/l at 20 °C Hygroscopic • D 2,68 •
M.P.: 884 °C • pH(50g/l) 5 - 8 •

BIBLIOGRAPHY: Merck Index **12**, 8.829 13, 8.755 Sax **SJY000** • Safety **2**, **3154 B** • Römp **8**, **2745** • Ullmann
(**4.**)**17**, 211 • Fieser **11103** • ACS **XI** • ISO 6353/2-1983R - 35, 50 • **BP.2018** • **USP 41** • Ph. Eur. **8.0** (2014) **9.0**
(2017) • F.C.C **10 11** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012 •

HAZARDOUS: RTECS: WE 1650000 • LD50 oral mus 5.989 mg/kg •

OBSERVATIONS: Storage below 30°C •

SPECIFICATIONS:

| | |
|---------------------------------------|--------------|
| Assay (calc. a.d.s.) | 99,0-101,0 % |
| Identity : | |
| Identity according to Pharmacopoeias: | passes test |

Maximum limit of impurities

| | |
|---------------------------------------|-------------|
| Appearance of solution | passes test |
| Acidity or alkalinity | passes test |
| Reducing substance to KMnO_4 | passes test |
| Loss on drying | 0,5% |
| Chloride (Cl) | 0,02% |
| Residual solvents (Ph.Eur/USP) | passes test |
| Heavy metals (as Pb) | 0,001% |

| | |
|----|---------|
| Ca | 0,045 % |
| Fe | 0,009 % |
| Mg | 0,02 % |

Elemental impurities (ICH Q3D):

Class 1

| | |
|----|---------|
| Cd | 0,5 ppm |
| Pb | 2 ppm |
| As | 1,5 ppm |
| Hg | 1,5 ppm |

Class 2A

| | |
|----|--------|
| Co | 5 ppm |
| V | 10 ppm |
| Ni | 20 ppm |

Class 2B

| | |
|----|--------|
| Tl | 2 ppm |
| Au | 10 ppm |
| Pd | 10 ppm |
| Ir | 10 ppm |
| Os | 10 ppm |
| Rh | 10 ppm |
| Ru | 10 ppm |
| Se | 15 ppm |
| Ag | 15 ppm |
| Pt | 10 ppm |

Class 3

| | |
|----|---------|
| Li | 55 ppm |
| Sb | 120 ppm |
| Ba | 140 ppm |
| Mo | 25 ppm |
| Cu | 250 ppm |
| Sn | 600 ppm |
| Cr | 25 ppm |