

**PRODUCT CODE: 141715****Sodium Sulfate 10-hydrate (USP, BP, Ph. Eur.) pure, pharma grade**

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 $\text{Na}_2\text{O}_4\text{S} \cdot 10\text{H}_2\text{O}$  $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ 

M.= 322,19

CAS [7727-73-3]

EINECS 231-820-9

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**SYNONYMS:** Glauber Salt**PHYSICAL DATA:** crystals, crystalline powder, White, Soluble in water 900 g/l at 20 °C D 1,46 • M.P.: 32 °C •**BIBLIOGRAPHY:** Merck Index **12**, 8.829 13, 8.755 Safety **2** , **3154 C** • Römp **8** , **2745** • Fieser **11103** • ACS **XI** • 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: WS 8402000 •**OBSERVATIONS:** Not recommended in areas with a very hot climate •**SPECIFICATIONS:**

Assay (calc. a.a.s)	99,0-100,5%
Identity :	
Identity according to Pharmacopoeias:	passes test
pH of 5% solution	5,2-9,2

**Maximum limit of impurities**

Appearance of solution	passes test
Acidity or alkalinity	passes test
Loss on drying at 130°C	52,0-57,0 %
Chloride (Cl)	0,01%
Nitrogen compounds (as N)	0,003%

Residual solvents (Ph.Eur/USP)	passes test
Heavy metals (as Pb)	0,001%
Ca	0,01 %
Fe	0,002 %
Mg	0,01 %
Elemental impurities (ICH Q3D):	
Class 1	
Cd	0,5 ppm
Pb	0,5 ppm
As	1,5 ppm
Hg	1,5 ppm
Class 2A	
Co	5 ppm
V	10 ppm
Ni	20 ppm
Class 2B	
Tl	0,8 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