

Identification

NaF
M = 41,99 g/mol
CAS [7681-49-4]
EC number: 231-667-8
Taric code: 2826 19 10

Synonyms

Chemifluor, Ossalin, Ossin, Zymafluor

Applications

analytical chemistry, laboratory reagent, in the production of enamels, insecticide, in fluoridation of drinking water.

Specifications

assay (complexometric).....	min. 99 %	sulfites (SO ₃)	max. 0,005 %
insoluble in water.....	max. 0,01 %	sodium fluorosilicate (Na ₂ SiF ₆).....	max. 0,1 %
acidity.....	max. 0,03 meq/g	copper (Cu).....	max. 0,0005 %
alkalinity.....	max. 0,01 meq/g	heavy metals (as Pb).....	max. 0,001 %
chlorides (Cl).....	max. 0,003 %	iron (Fe).....	max. 0,002 %
phosphates (as PO ₄).....	max. 0,0005 %	lead (Pb).....	max. 0,001 %
sulfates (SO ₄).....	max. 0,01 %	potassium (K).....	max. 0,02 %
		loss on drying (150 °C)	max. 0,2 %

Physical data

- Appearance: crystalline powder, white
- Spec. Density: 2,8 g/cm³
- Bulk density: ~ 800 kg/m³
- Solub. in water: (20 °C): 42 g/l
- Melting point: 996 °C
- Boiling point: 1695 °C
- Vapour pressure: (1077 °C) 1 hPa
- pH(40 g/l H₂O, 20 °C) ~ 10,2

Safety - GHS

Signal Word: Danger

Hazard Statements:

- H301: Toxic if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
EUH032: Contact with acids liberates very toxic gas.



Precautionary Statements:

- P280: Wear protective gloves / protective clothing / eye protection / face protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see on this label).
P405: Store locked up.
P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.

Transport/storage

- ADR: 6.1 T5 III • UN 1690 • SODIUM FLUORIDE, SOLID
- IMDG: 6.1 III • UN 1690 • SODIUM FLUORIDE, SOLID
- IATA/ICAO: 6.1 III • UN 1690 • SODIUM FLUORIDE, SOLID
- PAX: 619
- CAO: 619
- 10°C - 30°C