



>>Entry Name: Gallium nitrate, USAN

Synonym(s): Calstat. Ganite. NSC 15200

CAS Registry Number: 13494-90-1

$\text{Ga}(\text{NO}_3)_3$

Molecular Formula: GaN_3O_9

Molecular Weight: 255.738

Accurate Mass: 254.889037

Percentage Composition: Ga 27.26%; N 16.43%; O 56.31%

Use/Importance: Commercially available. Antineoplastic agent, calcium regulator (inhibits Ca resorption); used for the treatment of cancer-related hypercalcaemia and bone metastases

Physical Description: White moisture-sensitive cryst.

Development Status: Launched 1991 (US)

Boiling Point: $\text{Bp}_{0.01}$ 140°

Solubility: V. sol. H_2O , EtOH; spar. sol. Et_2O

Hazard & Toxicity: Nephrotoxic and gastrointestinal effects reported when used therapeutically. Skin irritant

>>Derivative: Nonahydrate

CAS Registry Number: 135886-70-3

Source/Synthesis: From Ga and conc. HNO_3

Physical Description: White cryst. (aq. HNO_3)

Melting Point: Mp 65°

Solubility: Sol. H_2O (250 g per 100 cm^3 at 20°)

Other Data: Slow dehydration at 40°. On heating dec. with formation of var. oxide or hydroxide nitrates

References:

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