

Guanidine Carbonate, pure

Empirical Formula: $C_3H_{12}N_6O_3$

Synonyms: Bisguanidinium carbonate, Carbonic acid, compound with guanidine (2:1)

CAS No.: 593-85-1

EINECS.No: 209-813-7

Molecular mass: 180.17 kg/kmol

Specification

Test Methods

Appearance:	White, crystalline powder	301e
Assay:	> 99,8% (HPLC)	311e
Loss on drying:	max. 0,3%	303e
Sulfated Ash:	max. 0,05%	307e
Appearance of solution (25 g / 75 ml water): (visual examination)	clear	302e
Heavy metals:	max. 10 mg/kg	313e

Above LAT Nitrogen analysis methods are available upon request.

Physical properties

Density (20°C / 68°F):	1.251 kg/m ³
Bulk density:	abt. 500 kg/m ³
Melting Point:	Start of melting at 190°C (under decomposition)
Solubility in water:	450 g/l (20°C / 68°F)

Application

Guanidine carbonate is a strongly alkaline, organic salt. Together with its derivatives, Guanidine carbonate is particularly used in the production of plastics, resins, flame retardants, cosmetics (as hair straighteners), photochemicals, disinfectants and airbag inflators (guanidine nitrate).

Packaging

Multiple paper bags with PE-inner bags of 25 kg net

Storage and handling

- Store in dry areas only.
- Guanidine carbonate absorbs humidity from the air.
- Guanidine carbonate tends to form blocks when stored longer than two months.

Transport classification: RID/ADR: no restriction

Tarif NO: 2925 2900

Safety

If swallowed, GC is harmful and irritant. Risk of serious damage to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not breathe dust. Wear eye/face protection.

For further information please refer to the Safety Data Sheet, which is available on the LAT Nitrogen homepage or can be sent on request.

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