

## TECHNICAL DATA SHEET

Effective date: 04.2019  
Rev.1

### Betaine

#### INFORMATION ON SUBSTANCE / MIXTURE

INCI	Betaine
Chemical name	Trimethylglycine, glycine betaine
Chemical formula	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub>
Molecular weight	117.15 g/mol
Description	Amino acid derivative that occurs in plants
Manufacturing process	-
Raw material category	Antistatic, Hair conditioning, Humectant, Skin conditioning, Viscosity controlling

#### TECHNICAL DATA

##### Physical and chemical parameters

Appearance	Solid, crystalline powder
Color	White
Odor	Faint molasses
pH, 5% 0.02M KCl solution	5.0 – 7.0
Moisture	Max. 2.0 %
Betaine content (dry substance)	99.0 – 100.0 %
Chloride	Max. 50 mg/kg
Sulphate	Max. 100 mg/kg
Ash	Max. 0.1 %
Meting point	180°C
Solubility	Soluble in water and alcohol

##### Biological parameters

Total plate count	Max. 100 cfu/g
Yeasts and molds	Max. 10 cfu/g
Coliforms	Absent /g
Escherichia coli	Absent /g

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Salmonella	Absent /25 g
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#### Impurities

Heavy metals	Max. 10 mg/kg
Arsenic	Max. 1 mg/kg
Lead	Max. 0.5 mg/kg
Iron	Max. 1 mg/kg

#### TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in closed containers, keep dry and avoid humidity (very hygroscopic).
Shelf Life	3 years, in closed packaging and the recommended conditions.
Custom tariff	-

#### LEGISLATION

Certification	-
Kosher	The product is Kosher
EINECS	203-490-6
CAS	107-43-7
REACH Registration no.	01-2119520508-42

#### DISCLAIMER

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