

## Technical Data Sheet

CustoTaine™ TMG, trimethyl glycine or betaine is a very simple, common molecule found in nature. Its name is derived from the sugar beet (*Beta vulgaris*). Its commercial form is obtained from the process of making sugar out of sugar beets by chromatography of the molasses. It can be labelled as "natural" and is available in large quantities at a very affordable price. Because of its structure, betaine can easily form hydrogen bonds with water and other molecules conferring it very unusual properties and in particular helping solubilize some other molecules. It is non-toxic (LD50 is 11.2 g/kg) is highly soluble in water (up to 55%) and chemically stable. Some of the applications in cosmetics include its ability to reduce the irritation effect of surfactants, its moisturizing and water retention capacity as well as its special skin feel.

Description: Betaine Anhydrous  
Product Code #: 30320  
CAS No: 107-43-7  
EINECS #: 203-490-6  
INCI NAME: Betaine

Properties	Specification
Appearance	White crystalline powder
Odor	Slight, characteristic
Assay	98% min.
Loss on Drying	2% max.
Residue on Ignition	0.1% max.
pH (5% Aq. Solution, 25°C)	4.0-7.0

Shelf Life: Retest after 2 years

Storage: Store in a tightly closed container in a cool, dry place. Protect from moisture.

Package: 25 kg

Rev Date: 4/26/17

File Name: TMG

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