


Product Description BETAINE MONOHYDRATE
 Product Number B1400
 Lot Number HYG1400014
 Shipping Temperature Room Temperature
 Storage Temperature 2-8°C
 Molecular Weight 135.16 g/mol
 Formula (CH₃)₃NCH₂COO·H₂O
 CAS Number 590-47-6

Physiochemical Specifications:

TEST	SPECIFICATION	RESULTS
Solubility	Soluble in Water @ 100 mg/mL	Passes
Physical Appearance	White powder or crystals	White powder/crystals
Identification (NMR)	Conforms to Structure	Conforms to Structure
Residue on Ignition	≤ 0.1%	0.02%
Moisture Content	10-16%	12.38%
Purity (TLC)	≥ 98.5%	99.49%
Purity (Titration w/ HClO ₄)	98.5-101.5%	99.73%
Bacterial Plate Count	≤1000 CFU/g	Passes
Heavy Metal (as Pb)	≤10 ppm	Passes

Calibre Scientific provides the above information intended to be used only as a guide to the appropriate handling of this material by a properly trained person. Calibre Scientific shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.

Date of Release: 15-January-2026
 Recommended Shelf-Life Date: 01-November-2027

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