



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

SPECIFICATION SHEET

HEPES OPTIMUM

N-(2-Hydroxyethyl) piperazine N'-(2-ethanesulfonic acid)

Code No.	SCN No.	CAS No.	Effective Date	Written	Rev. No.	Approved
HEPES0	1540	7365-45-9	June 18, 1998	RVK	Original	KSG

CHARACTERISTICS:	White powder
-------------------------	--------------

SPECIFICATIONS:	Assay	99.0% min.
	Absorbance (M solution, 1 cm cell)	
	A_{280}	0.04 max.
	A_{260}	0.05 max.
	Loss on drying (at 105°C)	0.5% max.
	Sulfated ash	0.1% max.
	Halide (Cl)	50 ppm max.
	Phosphate	10 ppm max.
	Sulfate	0.01% max.
	Copper	2 ppm max.
	Iron	2 ppm max.
	Lead	1 ppm max.
	Biological buffer: pKa at 20°C	7.55 ± 0.15

STOCKING POINTS:	Farmingdale, NJ; Natick, MA
-------------------------	-----------------------------

PACKAGING:	5 kg, 10 kg, and 25 kg drums
-------------------	------------------------------

APPLICATIONS:	Biological buffer
----------------------	-------------------