

**BIOLOGICAL
BUFFERS**

Ethane
Series

Product		CAS No
ACES	N-(2-Acetamido)-2-aminoethanesulfonic acid	7365-82-4
BES	N,N-bis(2-Hydroxyethyl)-2-aminoethanesulfonic acid	10191-18-1
CHES	2-(N-Cyclohexylamino)ethanesulfonic acid	103-47-9
HEPES	N-(2-Hydroxyethyl)piperazine-N'-ethanesulfonic acid	7365-45-9
MES	2-(N-Morpholino)ethanesulfonic acid	4432-31-9
MES-H	2-(N-Morpholino)ethanesulfonic acid monohydrate	145224-94-8
PIPES	Piperazine-N,N'-bis(2-ethanesulfonic acid)	5625-37-6
TES	2-[tris(Hydroxymethyl)methylamino]-1-ethanesulfonic acid	7365-44-8

**BIOLOGICAL
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Propane
Series

Product		CAS No
CAPS	3-(Cyclohexylamino)-1-propanesulfonic acid	1135-40-6
HEPPS	N-(2-Hydroxyethyl)piperazine-N'-propanesulfonic acid	16052-06-5
MOPS	3-(N-Morpholino)propanesulfonic acid	1132-61-2
PIPPS	1,4-Piperazine-N,N'-bis(propanesulfonic acid)	5625-56-9
TAPS	3-[tris(Hydroxymethyl)methylamino]-1-propanesulfonic acid	29915-38-6



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**BIOLOGICAL
BUFFERS**

Sodium Salt
Series

Product		CAS No
BES.Na	N,N-bis(2-Hydroxyethyl)-2-aminoethanesulfonic acid, sodium salt	66992-27-6
HEPES.Na	N-(2-Hydroxyethyl)piperazine-N'-ethanesulfonic acid, sodium salt	75277-39-3
MES.Na	2-(N-Morpholino)ethanesulfonic acid, sodium salt	71119-23-8
MOPS.Na	3-(N-Morpholino)propanesulfonic acid, sodium salt	71119-22-7
PIPES.2Na	Piperazine-N,N'-bis(2-ethanesulfonic acid), disodium salt	76836-02-7
TAPS.Na	N-[tris(Hydroxymethyl)methyl]-3-aminopropanesulfonic acid, sodium salt	91000-53-2
TES.Na	2-(tris(Hydroxymethyl)methylamino)-1-ethanesulfonic acid, sodium salt	70331-82-7

**BIOLOGICAL
BUFFERS**

SO Series

Product		CAS No
CAPSO	3-(Cyclohexylamino)-2-hydroxy-1-propanesulfonic acid	73463-39-5
DIPSO	3-[N,N-bis(2-Hydroxyethyl)amino]-2-hydroxypropanesulfonic acid	68399-80-4
HEPPSO	N-(2-Hydroxyethyl)piperazine-N'-(2-hydroxypropanesulfonic acid)	68399-78-0
MOPSO	3-[N-Morpholino]-2-hydroxypropanesulfonic acid	68399-77-9
TAPSO	3-(N-tris(Hydroxymethyl)methylamino)-2-hydroxypropanesulfonic acid	68399-81-5

**BIOLOGICAL
BUFFERS**

Others

Product		CAS No
BICINE	N,N-bis(2-Hydroxyethyl)glycine	150-25-4
BIS-TRIS	bis[2-Hydroxyethyl]imino tris(hydroxymethyl)methane	6976-37-0
G-132	Glycyl-glycine	556-50-3
TRICINE	N-tris(Hydroxymethyl)methylglycine	5704-04-1
TRIS-MBG	tris(Hydroxymethyl)aminomethane	77-86-1
TRIS-UP	tris(Hydroxymethyl)aminomethane	77-86-1
TRIS-HCl	tris(Hydroxymethyl)aminomethane hydrochloride	1185-53-1

**ZWITTERIONIC
DETERGENTS**

Product		CAS No
CHAPS	3-[(3-Cholamidopropyl) dimethylammonio]-1-propanesulfonate	75621-03-3
CHAPSO	3-[3-(Cholamidopropyl)dimethylammonio]-2-hydroxy-1-propanesulfonate	82473-24-3
SB-8	N-Octyl-N,N-dimethyl-3-ammonio-1-propanesulfonate	15178-76-4
SB-10	N-Decyl-N,N-dimethyl-3-ammonio-1-propanesulfonate	15163-36-7
SB-12	N-Dodecyl-N,N-dimethyl-3-ammonio-1-propanesulfonate	14933-08-5
SB-14	N-Tetradecyl-N,N-dimethyl-3-ammonio-1-propanesulfonate	14933-09-6
SB-16	N-Hexadecyl-N,N-dimethyl-3-ammonio-1-propanesulfonate	2281-11-0
SB-18	N-Octadecyl-N,N-dimethyl-3-ammonio-1-propanesulfonate	13177-41-8
NDSB-195	Dimethylethylammonium propanesulfonate	registered
NDSB-201	3-(1-Pyridinio)-1-propanesulfonate	15471-17-7

HOPAX'S BIOLOGICAL BUFFERS AND DETERGENTS

Hopax Fine Chemicals is one of the world's largest manufacturers of biological buffers and zwitterionic detergents.

Our chemicals are shipped daily from Hopax's headquarters in Kaohsiung (Taiwan) to top research centers and biotech companies located in 26 countries of Europe, America and Asia. Our leading global customers include pharmaceutical companies and manufacturers of diagnostic tests, cell culture media, cosmetics, reagents and others.

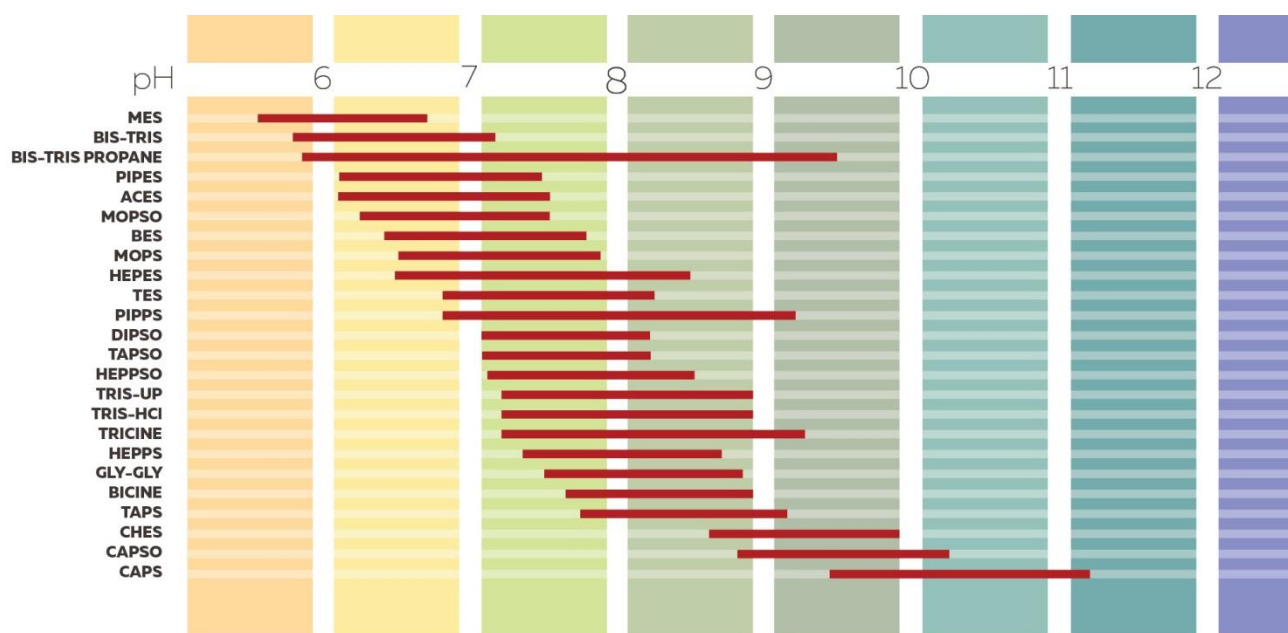
Our products are non toxic to cell cultures and have pKa values at or near physiological pH. All of our buffers are at least ultra puregrade, which means they have high assay and solubility, low levels of heavy metals, and are free of DNase, RNase, and Protease.

Hopax is in this market since 1975. Through partnering with us you will reduce risks and bring experience and knowledge to your supply chain of buffers and detergents. Our ISO 9001 certified plants are ready to manufacture products with consistent quality and to offer you a hassle-free experience when managing your supply chain.

Benefits offered

- Worldwide shipping
- Customized specifications available
- Analytical tests available upon request (DNase, RNase, protease activity, heavy metals and others)
- CoA and MSDS provided
- After sales service
- Auditable manufacturer

BUFFERING RANGE



ADDITIVES
for Electroplating

Product	Use		CAS No
PPS	Nickel plating	3-(1-Pyridinio)-1-propanesulfonate	15471-17-7
DPS	Copper plating	N,N-Dimethyl-dithiocarbamylpropylsulfonic acid, sodium salt	18880-36-9
MPS	Copper plating	3-Mercapto-1-propanesulfonic acid, sodium salt	17636-10-1
SPS	Copper plating	3,3'-Dithiobis-1-propanesulfonic acid, disodium salt	27206-35-5
ZPS	Copper plating	3-(Benzothiazolyl-2-thio)propylsulfonic acid, sodium salt	49625-94-7
UPS	Electroless plating	3-S-Isothiuronium propylsulfonate	21668-81-5

HOPAX'S ADDITIVES FOR ELECTROPLATING

Hopax Fine Chemicals is one of the world's largest manufacturers of brightening agents for electroplating.

Our chemicals are shipped daily from Hopax's factory in Changshu (China) to leading global customers located in Europe, America and Asia. Our additives are widely used by electroplating solutions manufacturers, working as brightening agents for copper, nickel and precious metals plating.

With proven excellent electric conductivity and stability in an environment of high acidity and electrical current, Hopax's additives effectively absorb metal ions and increase deposition rates.

Hopax is in this market since 1975. Through partnering with us you will reduce risks and bring experience and knowledge to your supply chain of additives for electroplating. Our ISO 9001 certified plants are ready to manufacture products with consistent quality and to offer you a hassle-free experience when managing your supply chain.

Benefits offered

- Worldwide shipping
- Customized specifications available
- Analytical tests available upon request
- CoA and MSDS provided
- After sales service
- Auditable manufacturer

SULFONATE Chain Modifiers

Product		CAS No
1,3-PS	1,3-Propane sultone	1120-71-4
1,4-BS	1,4-Butane Sultone	1633-83-6
AS-240K	3-Sulfopropylacrylate, potassium salt	31098-20-1
AS-240 Na	3-Sulfopropylacrylate, sodium salt	15717-25-6
BRESNA	Sodium 2-bromoethanesulfonate, 2-Bromoethanesulfonic acid sodium salt	4263-52-9
CHOPSNA (S-200)	3-(Benzothiazolyl-2-thio)propylsulfonic acid, sodium salt	143218-48-8
DAPS	N,N-Dimethyl-N-(2-methacryloyloxyethyl)-N-(3-sulfopropyl)ammonium betaine	3637-26-1
EES-200L	Sodium salt, diamine with sulfonic acid functional group	-

HOPAX'S SULFONATE CHAIN MODIFIERS

Hopax Fine Chemicals is one of the world's largest manufacturers of sulfonate chain modifiers.

Our chemicals are shipped daily from Hopax's factory in Kaohsiung (Taiwan) to leading global customers located in Europe, America and Asia. Our sulfonate chain modifiers are widely used by adhesives and waterborne polyurethane manufacturers (product commonly used in shoe adhesives, floor and textile coatings).

Hopax is in this market since 1975. Through partnering with us you will reduce risks and bring experience and knowledge to your supply chain of sulfonate chain modifiers. Our ISO 9001 certified plants are ready to manufacture products with consistent quality and to offer you a hassle-free experience when managing your supply chain.

Benefits offered

- Worldwide shipping
- Customized specifications available
- Analytical tests available upon request
- CoA and MSDS provided
- After sales service
- Auditable manufacturer