



## Year's end special offer

1 Oct. - 31 Dec., 2022

Find below some of our most valued products on promotion only until the end of 2022, and their most common application usages. For price request, please contact your local distributor or our Customer Service department at [customerservice.es@itwreagents.com](mailto:customerservice.es@itwreagents.com).



### Tris (USP, BP, Ph. Eur.) pure, pharma grade

**Tris** is used for biochemical, microbiological, pharmaceutical and molecular biology purposes as a buffer substance or as a component of buffer solutions. For example, in injection and infusion solutions, vaccines, eye drops, creams and gels as an excipient to improve their stability. It has an alkalizing and pH-regulating effect, i.e. it acts as a pH buffer, regulating and counteracting small changes in the pH of pharmacological solutions. The **pH is a crucial parameter in drugs** prepared in aqueous liquid form, because it has an impact on the solubility and activity of the molecule, drug stability and biological tolerability of the formulation.

Product code	Product name	CAS number	Pack sizes	Application usages
141940.1209	Tris (USP, BP, Ph. Eur.) pure, pharma grade	77-86-1	250 g	<ul style="list-style-type: none"> <li>• Excipient in pharmaceuticals.</li> <li>• Drug substance/buffer substance in medicine.</li> <li>• Academia: biological research.</li> </ul>
141940.1211			1 kg	
141940.0914			5 kg	
141940.0416			25 kg	



### 1-Methyl-2-Pyrrolidone (BP, Ph. Eur., USP-NF) pure, pharma grade

**1-methyl-2-pyrrolidone** has a wide range of uses because it is highly polar and miscible with most organic solvents, miscible with water in all proportions, being also a good solvent for inorganic substances. It is **used in a wide variety of industries and applications**. In the **pharmaceutical industry** it is used for drug synthesis; it is also used for crystallization and extraction, etc. In the **petrochemical industry**, for natural and synthetic gas purification, to recover pure hydrocarbons in petrochemical processing, in gas desulfurization. In the **production of plastics, resins, polymers; manufacture of membranes**. 1-methyl-2-pyrrolidone is used **as a solvent in the manufacture of polyphenylene sulfide (PPS)**. In **industrial cleaning of metals, glass, plastics**; as an ingredient in paint and coating strippers, degreasers, graffiti removal; as a solvent in the electronics industry, for agrochemical manufacturing, etc.

Product code	Product name	CAS number	Pack sizes	Application usages
143080.0719	1-Methyl-2-Pyrrolidone (BP, Ph. Eur., USP-NF) pure, pharma grade	872-50-4	200 L	<ul style="list-style-type: none"> <li>• Pharma industry.</li> <li>• Petrochemical industry.</li> <li>• Textile, resins, metal coated plastic industries.</li> </ul>

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### HEPES for cell culture

**HEPES** is widely used for buffering biological samples because of its buffering capacity at physiological pH and its lower toxicity compared to other similar compounds; it is also used as a component of cell cultures, e.g. in the pharmaceutical industry. In cell culture media, it is used as a substitute for bicarbonate buffer or as a supplement to bicarbonate buffer.

Product code	Product name	CAS number	Pack sizes	Application usages
A3268,9025	HEPES for cell culture	7365-45-9	25 kg	<ul style="list-style-type: none"> <li>Pharma industry: cell culture component.</li> <li>Academia: cell culture component.</li> </ul>



### Guanidine Thiocyanate for molecular biology

**Guanidine thiocyanate (GTC) or guanidinium (iso)thiocyanate (GITC)** is a chaotropic and strongly denaturing agent. It is used for COVID-19 research, virus inactivation, protein denaturation, RNase inactivation, and to isolate RNA (as well as DNA and proteins in some cases). In addition to a strong protein denaturing effect, high concentrations of chaotropic agents are involved in cell lysis. Guanidine thiocyanate is commonly used in combination with phenol-chloroform for RNA extraction and isolation. It is used by kit manufacturers, in molecular biology laboratories and in the medical and biopharmaceutical industry.

Product code	Product name	CAS number	Pack sizes	Application usages
A1107,0500	Guanidine Thiocyanate for molecular biology	593-84-0	500 g	<ul style="list-style-type: none"> <li>Kits manufacturers.</li> <li>Academia: molecular biology laboratories.</li> <li>Medical and Biopharma industry.</li> </ul>
A1107,1000			1 kg	
A1107,9025			25 kg	



### Propionic Anhydride for synthesis

**Propionic Anhydride** is primarily used as a raw material and acylating agent for cellulose acetate propionate, dyes, pharmaceuticals, agrochemicals, and fragrance chemicals. It is miscible with most organic solvents. The product hydrates with water and decomposes with alcohol.

Product code	Product name	CAS number	Pack sizes	Application usages
15A983.0019	Propionic Anhydride for synthesis	123-62-6	197 L	<ul style="list-style-type: none"> <li>Medical and Pharmaceutical.</li> <li>Fragrance chemicals.</li> <li>Agrochemicals, food and beverage.</li> </ul>

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