

# AVANTOR™ PARENTERAL DOSAGE FORM EXCIPIENTS

Application	Product	Brand	P/N	Grade Description	MOC Code	Available size range*	
Antioxidant	Ascorbic Acid, Fine Granular	J.T.Baker®	0938	USP, FCC	R	125 g	1 kg
	Ascorbic Acid, Fine Powder	J.T.Baker®	0937	USP, FCC	R	500 g	1 kg
		J.T.Baker®	0939	USP, EP, BP, JP	R	500 g	1 kg
	Ascorbic Acid, Very Fine Powder	Macron Fine Chemicals™	8829	USP	R	500 g	
	Ascorbic Acid, Crystalline Powder	J.T.Baker®	0936	USP, FCC	R	500 g	1 kg
	L-Cysteine Hydrochloride, Monohydrate	J.T.Baker®	2071	USP, FCC, EP, BP	R	100 g	1 kg
	L-Methionine	J.T.Baker®	2085	USP, FCC, EP, BP, JP	R	100 g	1 kg
	Sodium Metabisulfite	J.T.Baker®	3551	NF, EP, BP, JP	R	2.5 kg	
Sodium Metabisulfite, Granular	Macron Fine Chemicals™	7770	NF, FCC	R	2.5 kg		
Buffering Agent	Acetic Acid, 36%	Macron Fine Chemicals™	2488	NF	R	2.5 L	
	Acetic Acid, Glacial	Macron Fine Chemicals™	3121	USP, FCC, ACS	R	500 mL	2.5 L
		J.T.Baker®	9522	USP, FCC	R	500 mL	450 lb
		J.T.Baker®	9526	USP, EP, BP, JP	R	500 mL	450 lb
	Ammonium Sulfate	J.T.Baker®	0798	NF	R	500 g	50 kg
	Boric Acid, Granular	Macron Fine Chemicals™	1394	NF	R	12 kg	330 lb
	Citric Acid, Monohydrate, Granular	Macron Fine Chemicals™	0616	USP	R	500 g	12 kg
		J.T.Baker®	0119	USP, FCC	R	500 g	110 lb
		J.T.Baker®	0115*	USP, EP, BP, JP	R	500 g	50 kg
		J.T.Baker®	0116	USP, EP, BP, JP	R	12 kg	
	Citric Acid, Monohydrate, Crystalline Powder	J.T.Baker®	0120	USP, FCC	R	2.5 kg	
	Citric Acid, Anhydrous, Powder	J.T.Baker®	0122	USP	R	500 g	200 lb
		J.T.Baker®	0127	USP, EP, BP, JP	R	2.5 kg	12 kg
	Glycine	J.T.Baker®	0581	USP, FCC	R	500 g	12 kg
		J.T.Baker®	0582	USP, EP, BP, JP	R	500 g	50 kg
	L-Histidine Monohydrochloride	J.T.Baker®	2081	FCC, BP, EP	R	1 kg	50 kg
	Hydrochloric Acid, 36.5–38%	J.T.Baker®	9544	NF, EP, BP, JP	R	500 mL	475 lb
		Macron Fine Chemicals™	2515	NF, EP, BP, JP	R	2.5 L	
		Macron Fine Chemicals™	2612	NF, FCC, ACS	R	500 mL	500 lb
	Hydrochloric Acid, Diluted	Macron Fine Chemicals™	2608	NF	R	500 mL	50 L
	L-Lysine Hydrochloride	J.T.Baker®	2084	USP, FCC, EP, BP, JP	R	1 kg	50 kg
	Phosphoric Acid, Diluted	J.T.Baker®	5683	NF, EP, BP	R	19 L	425 lb
	Phosphoric Acid	J.T.Baker®	0268	NF, EP, BP	R	500 mL	700 lb
		J.T.Baker®	0262	NF, FCC	R	500 mL	700 lb
	Potassium Phosphate, Dibasic	J.T.Baker®	3251	USP	R	12 kg	200 lb
		J.T.Baker®	3250	USP, EP, BP	R	500 g	12 kg
	Potassium Phosphate, Monobasic, Crystal	Macron Fine Chemicals™	7746	NF	R	500 g	12 kg
		J.T.Baker®	3247	NF, FCC	R	2.5 kg	250 lb
		J.T.Baker®	3248	NF, BP, EP	R	500 g	12 kg
	Sodium Acetate, Anhydrous	J.T.Baker®	3473	USP, FCC	R	500 g	200 lb
J.T.Baker®		3474	USP, FCC	R	12 kg		

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Application	Product	Brand	P/N	Grade Description	MOC Code	Available size range*	
Buffering Agent (cont.)	Sodium Acetate, Trihydrate, Crystal	J.T.Baker®	3462	USP, FCC	HR	500 g	275 lb
		J.T.Baker®	3461	USP, BP, EP, JP	HR	500 g	275 lb
	Sodium Bicarbonate, Powder	Macron Fine Chemicals™	7396	USP, FCC	R	500 g	300 lb
		J.T.Baker®	3509	USP, FCC	R	500 g	100 lb
		J.T.Baker®	3510	USP, EP, BP, JP	R	2.5 kg	100 lb
	Sodium Borate, 10-Hydrate	Macron Fine Chemicals™	7418	NF	R	300 lb	
		J.T.Baker®	3574	NF	R	500 g	12 kg
		J.T.Baker®	3575	NF, EP, BP, JP	R	12 kg	
	Sodium Citrate, Dihydrate, Granular	J.T.Baker®	3649	USP, FCC	R	500 g	275 lb
		J.T.Baker®	3647	USP, EP, BP, JP	R	500 g	100 lb
		J.T.Baker®	3648	USP, EP, BP, JP	R	12 kg	
	Sodium Citrate, Dihydrate, Powder	J.T.Baker®	3650	USP, FCC	R	500 g	2.5 kg
	Sodium Citrate, Dihydrate, Crystal	Macron Fine Chemicals™	0734	USP, FCC	R	500 g	12 kg
	Sodium Hydroxide, Pellets	Macron Fine Chemicals™	7680	USP, FCC	R	500 g	110 lb
		Macron Fine Chemicals™	7772	NF, FCC, EP, BP, JP	R	2.5 kg	220 lb
		J.T.Baker®	3728	NF, FCC	R	12 kg	220 lb
		J.T.Baker®	3718*	NF, EP, BP, JP	R	12 kg	220 lb
	Sodium Phosphate, Dibasic, Anhydrous	J.T.Baker®	3826	USP, FCC, ACS	R	12 kg	250 lb
		J.T.Baker®	3827	USP, FCC	R	500 g	250 lb
		J.T.Baker®	3804	USP, EP, JP	R	500 g	50 kg
	Sodium Phosphate, Dibasic, 7-Hydrate	J.T.Baker®	3803	USP, EP	HR	500 g	200 lb
	Sodium Phosphate, Dibasic, 7-Hydrate, Granular	Macron Fine Chemicals™	7393	USP	R	2.5 kg	12 kg
	Sodium Phosphate, Dibasic, 7-Hydrate, Crystal	J.T.Baker®	3816	USP	HR	2.5 kg	200 lb
J.T.Baker®		3817	USP	HR	500 g	200 lb	
Sodium Phosphate, Monobasic, Monohydrate	J.T.Baker®	3802	NF, FCC	HR	500 g	12 kg	
Sodium Phosphate, Monobasic, Monohydrate, Crystal	J.T.Baker®	3821	USP, FCC	HR	500 g	12 kg	
	J.T.Baker®	3820	USP, FCC	HR	500 g	12 kg	
Sulfuric Acid, 95–98%	J.T.Baker®	9671	NF, EP, BP	R	500 mL	4050 lb	
	J.T.Baker®	9675	NF, FCC	R	500 mL	700 lb	
Chelating Agent	Edetate Disodium	Macron Fine Chemicals™	1395	USP	R	500 g	100 lb
		Macron Fine Chemicals™	7727	USP, FCC, BP, EP	R	500 g	12 kg
		J.T.Baker®	8994	USP	R	500 g	12 kg
		J.T.Baker®	8995	USP, BP, EP, JP	R	500 g	100 lb
Preservative	Benzoic Acid, Crystal	Macron Fine Chemicals™	0108	USP	R	500 g	50 kg
	Benzyl Alcohol	Macron Fine Chemicals™	1403	USP	R	1 L	463 lb
	Methyl Paraben	Macron Fine Chemicals™	6215	NF, FCC, BP, EP, JP	R	25 kg	
	Phenol, Crystal	Macron Fine Chemicals™	0605	USP	R	500 g	2.5 kg
		J.T.Baker®	2864	USP	R	500 mL	4 L
	Propyl Paraben	Macron Fine Chemicals™	7624	NF, FCC, BP, EP, JP	R	25 kg	
	Sodium Benzoate	Macron Fine Chemicals™	0168	NF, FCC	R	500 g	2.5 kg
		J.T.Baker®	3500	NF, FCC	R	500 g	2.5 kg
		J.T.Baker®	3501	NF, BP, EP	R	500 g	2.5 kg
Sodium Benzoate, Dense	Macron Fine Chemicals™	1331	NF, FCC	R	45 kg		
Sodium Benzoate, Dust Free	Macron Fine Chemicals™	1454	NF, FCC	R	45 kg		

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Solvent	Glycerin	J.T.Baker®	2140	USP, FCC	R	500 mL	550 lb
		J.T.Baker®	2142	USP	R	500 mL	550 lb
		J.T.Baker®	2143	USP, BP, EP, JP	R	500 mL	2200 lb
	Propylene Glycol	Macron Fine Chemicals™	6263	USP, FCC	R	20 L	
		J.T.Baker®	9402	USP, FCC	R	500 mL	480 lb
J.T.Baker®		9403	USP, BP, EP, JP	R	4 L	480 lb	
Thickening Agent/ Suspending Agent	Gelatin Powder, Type B	J.T.Baker®	2124	NF	R	500 g	2.5 kg
Tonicity Adjuster	L-Arginine	J.T.Baker®	2066	USP, FCC, BP, EP	R	1 kg	50 kg
	L-Arginine Hydrochloride	J.T.Baker®	2067	USP, FCC, BP, EP, JP	R	1 kg	50 kg
	Calcium Chloride, Dihydrate, Granular	Macron Fine Chemicals™	4616	USP, FCC	R	500 g	12 kg
		J.T.Baker®	1336	USP, FCC	R	500 g	300 lb
		J.T.Baker®	1335	USP, BP, EP, JP	R	12 kg	
	Dextrose, Anhydrous	J.T.Baker®	1919	USP	R	500 g	200 lb
		J.T.Baker®	1920	USP, EP, BP, JP	R	2.5 kg	100 kg
	Dextrose, Anhydrous, Granular	Macron Fine Chemicals™	4908	USP	R	500 g	100 lb
		Macron Fine Chemicals™	7730	USP, EP, BP, JP	R	2.5 kg	12 kg
	Dextrose, Monohydrate, Powder	J.T.Baker®	1912	USP	R	500 g	2.5 kg
		J.T.Baker®	1913	USP, Multicompendial	R	12 kg	50 kg
	Glycerin	J.T.Baker®	2140	USP, FCC	R	500 mL	550 lb
		J.T.Baker®	2142	USP	R	500 mL	550 lb
		J.T.Baker®	2143	USP, BP, EP, JP	R	500 mL	2200 lb
	Glycine	J.T.Baker®	0581	USP, FCC	R	500 g	12 kg
		J.T.Baker®	0582	USP, EP, BP, JP	R	500 g	50 kg
	L-Histidine	J.T.Baker®	2080	USP, FCC, BP, EP, JP	R	100g	12 kg
	L-Histidine Monohydrochloride	J.T.Baker®	2081	FCC, BP, EP	R	1 kg	50 kg
	Lactose Monohydrate, Powder	Macron Fine Chemicals™	6270	NF	R	500 g	
		J.T.Baker®	2249	NF	R	500 g	12 kg
		J.T.Baker®	2250	NF, Multicompendial	R	2.5 kg	12 kg
	Magnesium Chloride, 6-Hydrate	Macron Fine Chemicals™	5956	USP	HR	2.5 kg	100 lb
	Magnesium Chloride, 6-Hydrate, Crystal	J.T.Baker®	2448	USP, FCC	HR	500 g	250 lb
		J.T.Baker®	2449	USP, BP, EP	HR	500 g	90 lb
	Magnesium Sulfate, Anhydrous	Macron Fine Chemicals™	5053	USP	R	12 kg	200 lb
	Magnesium Sulfate, Dried Powder	Macron Fine Chemicals™	6050	USP, FCC	R	100 lb	
	Magnesium Sulfate, 7-Hydrate	Macron Fine Chemicals™	4200	USP, FCC	R	2.5 kg	12 kg
	Magnesium Sulfate, 7-Hydrate, Crystal	J.T.Baker®	2505	USP	R	12 kg	
		J.T.Baker®	2504	USP, BP, EP	R	500 g	175 lb
		Macron Fine Chemicals™	6208	USP	R	500 g	12 kg
	Mannitol	Macron Fine Chemicals™	7781	USP, EP, BP	R	500 g	12 kg
		J.T.Baker®	2555	USP	R	2.5 kg	
		J.T.Baker®	2553*	USP, EP, BP, JP	R	500 g	50 kg
Macron Fine Chemicals™		6845	USP	R	500 g		
Potassium Chloride, Crystal	J.T.Baker®	3046	USP, FCC	R	500 g	250 lb	
	J.T.Baker®	3045	USP, BP, EP, JP	R	500 g	100 lb	

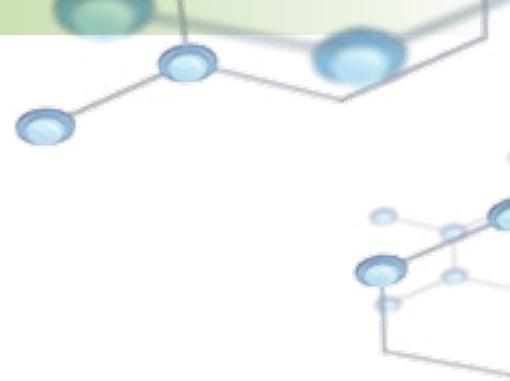
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Tonicity Adjuster (cont.)	Potassium Chloride, Granular	Macron Fine Chemicals™	6838	USP, FCC	R	500 g	250 lb	
	Potassium Chloride, Powder	J.T.Baker®	3052	USP, FCC	R	500 g	2.5 kg	
	Sodium Chloride, Granular	Macron Fine Chemicals™	7532	USP, FCC	R	500 g	350 lb	
			4577	USP, FCC	R	12 kg		
			7713	USP, FCC, EP, BP, JP	R	500 g	220 lb	
			J.T.Baker®	3628	USP, FCC	R	500 g	350 lb
			J.T.Baker®	3629	USP, FCC	R	12 kg	350 lb
			J.T.Baker®	3627	USP, EP, BP, JP	R	500 g	350 lb
	Sodium Chloride, Powder	Macron Fine Chemicals™	7540	USP, EP, BP, JP	R	500 g	100 lb	
	Sodium Sulfate, Anhydrous	Macron Fine Chemicals™	8028	USP	R	500 g	12 kg	
	Sodium Sulfate, Anhydrous, Powder	Macron Fine Chemicals™	J.T.Baker®	3895	USP	R	500 g	12 kg
			7803	USP, EP, BP	R	12 kg		
	Sucrose	Macron Fine Chemicals™	7724	NF	R	12 kg		
			7723	NF, EP, BP	R	1 kg	100 lb	
			J.T.Baker®	4005	NF, Multicompendial	R	100 g	12 kg
Sucrose, Crystal	J.T.Baker®	4074	NF, Multicompendial	R	500 g	90 kg		
L-Threonine	J.T.Baker®	2089	USP, FCC, BP, EP, JP	R	1 kg	12 kg		
Wetting Agent/ Solubilizer	Polysorbate 20	J.T.Baker®	4116	NF, EP, BP, JP	R	20 mL	19 L	
	Polysorbate 80	J.T.Baker®	4500	NF, EP, BP, JP	R	200 mL	4 L	
		J.T.Baker®	4117	NF, EP, BP, JP	R	20 mL	19 L	

## Change Notification Process Categories at a Glance

	HR	R	RL	NI	N
<b>MOC Category</b>	Highly Regulated	Regulated	Regulated Limited	Non-Regulated with Information	Non-Regulated
<b>Bulk Pharmaceutical</b>	Yes	Yes	Regional Markets	No	No
<b>Intended Use</b>	API, BPE	BPE	Processing Aids, Food, Nutraceuticals, Cosmetics	Reagents	Reagents
<b>Grades</b>	USP, NF, EP, BP, IP, JP	USP, NF, EP, BP, IP, JP	IP, EP, FCC	ACS, Reagents	ACS, Reagents
<b>Notification of Change</b>	Yes—Level 2 & 3	Yes—Level 2 & 3	Yes—Level 2 & 3	Limited if registered in MOC database	No
<b>Industry Reference</b>	IPEC, Q7	IPEC, Q7	FCC, IP, EU	None	None
<b>Regulating Body</b>	FDA, cGMP	FDA, cGMP	IFPA, EU, Food GMP	None	None

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Phillipsburg, NJ 9001:2008 & 14001:2004  
 Paris, KY 9001:2008  
 Mexico City, Mexico 9001:2008  
 Deventer, the Netherlands 9001:2008, 14001:2004 & 13485:2003

Gliwice, Poland 9001:2008 & 17025:2005  
 Selangor, Malaysia 9001:2008  
 Dehradun, India 9001:2008, 14001:2004 & 13485:2003  
 Mumbai, India 9001:2008 & 17025:2005

### Avantor™ Performance Materials

Avantor Performance Materials manufactures and markets high-performance chemistries and materials around the world under several respected brand names, including the J.T.Baker®, Macron Fine Chemicals™, Rankem™, BeneSphera™ and POCH™ brands.

Avantor products are used in a wide range of industries. Our biomedical and life science solutions are used in pharmaceutical production, laboratory research for academic, industry and quality control, and in medical lab testing. Our electronics materials products are used in the manufacturing of semiconductors.

For additional information please visit [www.avantormaterials.com](http://www.avantormaterials.com) or follow [www.twitter.com/avantor\\_news](https://twitter.com/avantor_news)

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**ASK Avantor™**  
 Our Web site features ASK Avantor™, which includes live chat capabilities with customer service representatives.  
[www.avantormaterials.com/askavantor](http://www.avantormaterials.com/askavantor)

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### Worldwide Locations

- China
- India
- Korea
- Malaysia
- Mexico
- The Netherlands
- North America
- Poland
- Taiwan

For contact information at these locations, visit [www.avantormaterials.com/WorldwideDirectory](http://www.avantormaterials.com/WorldwideDirectory)

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