



PRAYON

Product range

Edition 01/2011



SODIUM ORTHOPHOSPHATES



PRODUCT NAME	Made in	Bulk density		P ₂ O ₅	pH	Na ₂ O	Solubility	Main applications	
		g/cm ³	lbs/ft ³	% Indicative	1% Indicative	% Indicative	g/100 g water @ 20°C		
MONOSODIUM PHOSPHATES									
MONOSODIUM PHOSPHATE ANHYDROUS - NaH₂PO₄									
PRAYPHOS MSP FG (E339)		0.8	50	59	4.5	26	85	Process cheese, meat products, dairy, ... Metal treatment. Water treatment. Textiles. Detergents Fermentation. Pharmacy. Toothpaste.	
PRAYPHOS MSP FG GR (E339)		1.3	81	59	4.5	26	85		
PRAYPHOS MSP FG Surfin (E339)		0.8	50	59	4.5	26	85		
PRAYPHOS MSP TG		0.8	50	59	4.5	26	85		
PRAYPHOS MSP TG GR		1.3	81	59	4.5	26	85		
PRAYPHOS MHSP TG		1.1	69	61	2.9	14	50		
MONOSODIUM PHOSPHATE MONOHYDRATE - NaH₂PO₄·1H₂O									
PRAYPHOS MSP 1 FG (E339)		1.1	69	52	4.5	22	90		
MONOSODIUM PHOSPHATE DIHYDRATE - NaH₂PO₄·2H₂O									
PRAYPHOS MSP 2 FG (E339)		1.0	62	46	4.5	20	145		
PRAYPHOS MSP 2 TG		1.0	62	46	4.5	20	145		
DISODIUM PHOSPHATES									
DISODIUM PHOSPHATE ANHYDROUS - Na₂HPO₄									
PRAYPHOS DSP FG (E339)		0.9	56	50	9.0	44	8	Process cheese, meat products, dairy, ... Metal treatment. Water treatment. Textiles. Ceramics and enamels.	
PRAYPHOS DSP FG Coarse Powder (E339)		1.5	94	50	9.0	44	8		
PRAYPHOS DSP FG Surfin (E339)		0.7	44	50	9.0	44	8		
PRAYPHOS DSP 108 FG GR (E339)		1.2	75	50	9.0	44	8		
PRAYPHOS DSP 118 FG (E339)		0.8	50	50	9.0	44	8		
PRAYPHOS DSP TG		0.8	50	50	9.0	44	8		
PRAYPHOS DSP 101 TG GR		1.2	75	50	9.0	44	8		
PRAYPHOS DSP 110 TG		0.8	50	50	9.0	44	8		
DISODIUM PHOSPHATE DIHYDRATE - Na₂HPO₄·2H₂O									
PRAYPHOS DSP 2 FG (E339)		1.1	69	40	9.3	35	9		
DISODIUM PHOSPHATE DODECAHYDRATE - Na₂HPO₄·12H₂O									
PRAYPHOS DSP 12 FG (E339)		1.0	62	21	9.3	17	22		
PRAYPHOS DSP 12 TG		1.0	62	21	9.3	17	22		
TRISODIUM PHOSPHATES									
TRISODIUM PHOSPHATE ANHYDROUS - Na₃PO₄									
PRAYPHOS TSP FG (E339)		1.2	75	43	12.3	57	12	Process cheese, meat products, potatoes, ... Detergents. Water treatment. Metal treatment.	
PRAYPHOS TSP FG GR (E339)		1.0	62	43	12.3	57	12		
PRAYPHOS TSP 208 FG GR (E339)		1.2	75	43	12.0	57	12		
PRAYPHOS TSP TG		1.2	75	43	12.3	57	12		
PRAYPHOS TSP 100 TG GR		1.2	75	43	12.0	57	12		
PRAYPHOS TSP 110 TG		0.9	59	43	12.0	57	12		
TRISODIUM PHOSPHATE DODECAHYDRATE - Na₃PO₄·12H₂O									
PRAYPHOS TSP 12 FG (E339)		0.9	56	19	12.1	24	33		
PRAYPHOS TSP 12 TG		0.9	56	19	12.1	24	33		
PRAYPHOS TSP 12 PWR		0.9	56	19	12.1	24	33		

Food Grade (FG): Our food grade phosphates meet the requirements of the current European Commission Directive on purity criteria and current edition of the Food Chemical Codex (FCC).
 Technical Grade (TG) Granular (GR) National Formulary (NF).
 Pharmaceutical Grade (USP): Complies with the United States Pharmacopoeia.
 Prayon complies with REACH EU Regulation 1907/2006/EC.

SODIUM PYROPHOSPHATES



PRODUCT NAME	Made in	Bulk density		P ₂ O ₅	pH	Na ₂ O	Solubility	Main applications
		g/cm ³	lbs/ft ³	% Indicative	1% Indicative	% Indicative	g/100 g water @ 20°C	
SODIUM ACID PYROPHOSPHATE - Na₂H₂P₂O₇								
PRAYPHOS SAPP FG (E450)		1.1	69	64	4.1	28	12	Process cheese, meat products, potatoes, ... Metal treatment.
PRAYPHOS SAPP FG LI (E450)		1.1	69	64	4.2	28	12	
PRAYPHOS SAPP 108 FG GR (E450)		1.1	69	63	4.4	28	12	
PRAYPHOS SAPP NL170 FG (E450)		0.9	56	63	4.4	28	12	
PRAYPHOS SAPP NL180 FG Dental		0.9	56	63	4.4	28	12	
PRAYPHOS SAPP 101 TG GR		1.1	69	63	4.4	28	12	
For baking: see our Praylev range								
TETRASODIUM PYROPHOSPHATE - Na₄P₂O₇								
PRAYPHOS TSPP FG (E450)		0.9	56	54	10.5	47	5.6	Process cheese meat products, ... Detergents and cleaners. Textiles. Toothpaste. Metal treatment. Water treatment. Pulp and paper. Latex paints. Rubber.
PRAYPHOS TSPP FG GR (E450)		1.0	62	54	10.5	47	5.6	
PRAYPHOS TSPP Surfin (E450)		0.8	50	54	10.5	47	5.6	
PRAYPHOS TSPP 108 FG GR (E450)		1.1	69	53	10.3	47	5.6	
PRAYPHOS TSPP 118 FG (E450)		0.8	50	53	10.3	47	5.6	
PRAYPHOS TSPP TG		0.9	56	54	10.5	47	5.6	
PRAYPHOS TSPP TG GR		1.0	62	54	10.5	47	5.6	
PRAYPHOS TSPP 101 TG GR		1.1	69	53	10.3	47	5.6	
PRAYPHOS TSPP 110 TG		0.8	50	53	10.3	47	5.6	



PRAYON

SODIUM TRIPOLYPHOSPHATES



PRODUCT NAME	Made in	Bulk density		P ₂ O ₅	pH	Na ₂ O	Solubility	Main applications
		g/cm ³	lbs/ft ³	% Indicative	1% Indicative	% Indicative	g/100 g water @ 20°C	
SODIUM TRIPOLYPHOSPHATE FOOD GRADE - Na₅P₃O₁₀								
PRAYPHOS STPP FG (E451)		0.8	50	58	10.0	42	14	Seafood meat products, Process cheese, ... Pet food. Toothpaste.
PRAYPHOS STPP FG SP (E451)		0.8	50	58	10.0	42	14	
PRAYPHOS STPP FG GR (E451)		0.4	25	58	10.0	42	14	
PRAYPHOS STPP FG GR SP (Carfosal 408) (E451)		0.4	25	58	10.0	42	14	
PRAYPHOS STPP 118 FG Powder, Low TR (E451)		0.8	50	57	9.8	42	14	
PRAYPHOS STPP 188 FG Dental (High TR) (E451)		0.8	50	57	9.8	42	14	
PRAYPHOS STPP 198 FG GR, Heavy Density (High TR) (E451)		1.0	62	57	9.8	42	14	

SODIUM TRIPOLYPHOSPHATES



PRODUCT NAME	Made in	Bulk density		P ₂ O ₅	pH	Na ₂ O	Solubility	Main applications
		g/cm ³	lbs/ft ³	% Indicative	1% Indicative	% Indicative	g/100 g water @ 20°C	
SODIUM TRIPOLYPHOSPHATE TECHNICAL GRADE - Na₅P₃O₁₀								
POLYPRAY GDA (TG, Heavy GR, Anhydrous)		1.1	69	58	10.0	42	14	Detergents and cleaners. Water treatment. Metal treatment. Ceramics and enamels. Textile industry. Cement. Paints. Drilling muds. Pulp and paper. Blood treatment.
POLYPRAY CR (TG, Heavy GR, Anhydrous)		1.1	69	58	10.0	42	14	
POLYPRAY CR HP I (TG, Heavy GR, Hydrated)		1.1	69	58	10.0	42	14	
POLYPRAY LV (TG, Heavy GR, Hydrated)		1.1	69	54	10.0	42	14	
POLYPRAY LV 4 (TG, Heavy GR, Hydrated)		1.1	69	56	10.0	42	14	
POLYPRAY LV HP I (TG, Heavy GR, Hydrated)		1.1	69	54	10.0	42	14	
POLYPRAY HD/HT (TG, Powder, Anhydrous)		0.7	44	58	10.0	42	14	
POLYPRAY HD/MT (TG, Powder, Anhydrous)		0.7	44	58	10.0	42	14	
POLYPRAY LDA GR (TG, GR, Anhydrous)		0.4	25	58	10.0	42	14	
POLYPRAY MDA GR (TG, GR, Anhydrous)		0.6	37	58	10.0	42	14	
POLYPRAY HD Prehydrated LI (TG, Powder, Prehydrated)		0.7	44	57	10.0	42	14	
POLYPRAY H (TG, Powder, Hydrated)		0.7	44	56	10.0	42	14	
POLYPRAY HL (TG, Fine GR, Hydrated)		0.6	37	56	10.0	42	14	
POLYPRAY STPP 110 TG (Medium TR)		0.8	50	57	9.8	42	14	
POLYPRAY STPP 120 TG (Low TR)		0.8	50	57	9.8	42	14	
POLYPRAY STPP 140 TG (Ultra High TR)		0.8	50	57	9.8	42	14	
POLYPRAY STPP 185 TG GR (Heavy Density, Low TR)		1.0	65	57	9.8	42	14	
POLYPRAY STPP 195 TG GR (Moisturized, Ultra High TR)		1.0	65	57	9.8	42	14	
POLYPRAY STPP 197 TG GR SP (Coarse, Heavy Density, High TR)		1.0	62	57	9.8	42	14	

SODIUM POLYPHOSPHATES



PRODUCT NAME	Made in	Bulk density		P ₂ O ₅ % Indicative	pH 1% Indicative	Na ₂ O % Indicative	Solubility g/100 g water @ 20°C	Main applications
		g/cm ³	lbs/ft ³					
SODIUM PENTAPOLYPHOSPHATE - Na₅P₅O₁₆								Process cheese, meat products,...
PRAYPHOS S5PP FG (E452)		1.1	69	62	8.4	38	Very soluble	
SODIUM HEXAMETAPHOSPHATE - (NaPO₃)_n, 16<n<22								Process cheese, meat products,dairy, ... Water treatment. Detergents and cleaners. Textile Industry. Pulp and paper. Cement and ceramic. Drilling muds. Leather. Paints. Toothpaste.
PRAYPHOS SHMP 440 FG (E452)		1.2	75	67	7.0	33	Very soluble	
PRAYPHOS SHMP 441 FG GR (E452)		1.3	81	67	7.0	33	Very soluble	
PRAYPHOS SHMP 450 FG (E452)		1.2	75	69	6.5	33	Very soluble	
PRAYPHOS SHMP 451 FG GR (E452)		1.3	81	69	6.5	33	Very soluble	
PRAYPHOS SHMP 460 FG (E452)		1.2	75	69	6.0	33	Very soluble	
PRAYPHOS SHMP 461 FG GR (E452)		1.3	81	69	6.0	33	Very soluble	
PRAYPHOS SHMP 449 TG GR		1.3	81	67	7.0	33	Very soluble	
PRAYPHOS SHMP 458 TG		1.2	75	69	6.5	33	Very soluble	
PRAYPHOS SHMP 459 TG GR		1.3	81	69	6.5	33	Very soluble	
SODIUM TRIMETAPHOSPHATE - (NaPO₃)₃								Starches, ... Pharmaceuticals. Detergents and cleaners. Plaster boards.
PRAYPHOS STMP 118 FG (E452)		0.8	50	69	6.5	30	25	
PRAYPHOS STMP 208 FG GR (E452)		1.0	62	69	6.7	30	25	
PRAYPHOS STMP 000 TG		0.8	50	69	6.3	30	25	



POTASSIUM ORTHOPHOSPHATES



PRODUCT NAME	Made in	Bulk density		P ₂ O ₅	pH	K ₂ O	Solubility	Main applications
		g/cm ³	lbs/ft ³	% Indicative	1% Indicative	% Indicative	g/100 g water @ 20°C	
MONOPOTASSIUM PHOSPHATE - KH ₂ PO ₄								Process cheese, meat products, ... Fermentation processes (yeasts, antibiotics, ...)
PRAYPHOS MKP FG (E340)		1.3	81	52	4.5	35	174	
DIPOTASSIUM PHOSPHATE - K ₂ HPO ₄								Process cheese, meat products, dairy, ... Water Treatment. Antibiotic Production. Fertilizers. Enamels. Antifreeze production. Paper production.
PRAYPHOS DKP FG (E340)		1.0	62	41	9.0	54	156	
PRAYPHOS DKP FG GR (E340)		1.1	69	41	8.9	54	156	
Solupray DKP 50% solution FG		/	/	20.37	9.1	27	Infinite	
Solupray DKP 50% solution TG		/	/	20.37	9.1	27	Infinite	
TRIPOTASSIUM PHOSPHATE - K ₃ PO ₄								Process cheese, meat products, dairy, ...
PRAYPHOS TKP FG (E340)		0.8	50	33	12.2	67	94	



POTASSIUM PYROPHOSPHATES



PRODUCT NAME	Made in	Bulk density		P ₂ O ₅	pH	K ₂ O	Solubility	Main applications
		g/cm ³	lbs/ft ³	% Indicative	1% Indicative	% Indicative	g/100 g water @ 20°C	
TETRAPOTASSIUM PYROPHOSPHATE - K ₄ P ₂ O ₇								
PRAYPHOS TKPP FG (E450)		1.0	62	43	10.5	57	180	Meat products,... Water treatment. Metal treatment. Detergents and cleaners. Ceramics. Paints.
PRAYPHOS TKPP FG GR (E450)		0.9	56	43	10.5	57	180	
PRAYPHOS TKPP TG		1.0	62	43	10.5	57	180	
PRAYPHOS TKPP TG GR		0.9	56	43	10.5	57	180	
PRAYPHOS TKPP 600 TG Coarse GR		1.1	70	43	10.3	57	180	
PRAYPHOS TKPP 608 FG GR (E450)		1.0	65	43	10.3	57	180	
PRAYPHOS TKPP 118 FG (E450)		1.1	70	43	10.3	57	180	
PRAYPHOS TKPP 101 TG GR		1.0	65	43	10.3	57	180	
PRAYPHOS TKPP 110 TG		1.1	70	43	10.3	57	180	
SOLUPRAY TKPP 60% Solution TG		/	/	26	10.3	34	Infinite	
SOLUPRAY TKPP 60% Solution FG		/	/	26	10.3	34	Infinite	

POTASSIUM TRIPOLY AND POLYPHOSPHATES



PRODUCT NAME	Made in	Bulk density		P ₂ O ₅	pH	K ₂ O	Solubility	Main applications
		g/cm ³	lbs/ft ³	% Indicative	1% Indicative	% Indicative	g/100 g water @ 20°C	
POTASSIUM TRIPOLYPHOSPHATE - K ₅ P ₃ O ₁₀								
PRAYPHOS KTPP FG (E451)		1.1	69	48	10.1	52	180	Meat products,... Water treatment. Metal treatment. Detergents and cleaners. Ceramics. Paints.
PRAYPHOS KTPP FG GR (E451)		1.1	69	48	10.1	52	180	
PRAYPHOS KTPP TG		1.1	69	48	10.1	52	180	
PRAYPHOS KTPP TG GR		1.1	69	48	10.1	52	180	
POTASSIUM METAPHOSPHATE - (KPO ₃) _n								
PRAYPHOS KMP FG (E452)		0.8	50	60	4.5	40	Insoluble except in presence of monovalent cations	Meat products,...



CALCIUM PHOSPHATES



PRODUCT NAME	Made in	Bulk density		P ₂ O ₅	pH	CaO	Solubility	Main applications	
		g/cm ³	lbs/ft ³	% Indicative	1% Indicative	% Indicative	g/100 g water @ 20°C		
SOFT CALCIUM PYROPHOSPHATE - Ca₂P₂O₇									
PRAYPHOS SCPP 000 Dental		0.5	31	54	6.5	44	Insoluble	Baking, mineral enrichment. Plaster and Cement. Toothpaste.	
MONOCALCIUM PHOSPHATE MONOHYDRATE - CaH₄(PO₄)₂·H₂O									
PRAYLEV AEROCAL 118 (E341)		0.6	37	56	3.9	22	Insoluble		
PRAYLEV AEROCAL 308 (E341)		0.6	37	56	3.9	22	Insoluble		
PRAYPHOS MCP M 100 TG		0.6	37	56	3.9	22	Insoluble		
DICALCIUM PHOSPHATES									
DICALCIUM PHOSPHATE ANHYDROUS - CaHPO₄									
PRAYPHOS DCP A 100 Dental (E341)		1.0	64	52	6.5	41	Insoluble	Baking, mineral enrichment. Toothpaste. Pharmaceutical. Bone china.	
PRAYPHOS DCP A 108 FG (E341)		1.0	64	52	6.5	41	Insoluble		
PRAYPHOS DCP A 128 USP EP (E341)		1.0	64	52	6.5	41	Insoluble		
PRAYPHOS DCP A 308 FG (E341)		1.0	64	52	6.5	41	Insoluble		
DICALCIUM PHOSPHATE DIHYDRATE - CaHPO₄·2H₂O									
PRAYPHOS DCP D 200 USP EP (E341)		0.6	37	41	7.0	32	Insoluble		
PRAYPHOS DCP D 208 FG (E341)		0.6	37	41	7.0	32	Insoluble		
PRAYPHOS DCP D 260 Dental (E341)		0.6	37	41	7.0	32	Insoluble		
PRAYPHOS DCP D 308 FG (E341)		0.6	37	41	7.0	32	Insoluble		
TRICALCIUM PHOSPHATE - Ca₃(PO₄)₃(OH)									
PRAYPHOS TCP 108 FG (E341)		0.6	37	41	7.1	55	Insoluble	Mineral enrichment. Pharmaceutical. Bone china. Enamels.	
PRAYPHOS TCP 128 NF (E341)		0.6	37	41	7.8	55	Insoluble		
PRAYPHOS TCP 308 FG (E341)		0.6	37	41	7.1	55	Insoluble		

PURIFIED PHOSPHORIC ACID



PRODUCT NAME	Made in	Bulk density		P ₂ O ₅	Main applications
		g/cm ³	lbs/ft ³	% Indicative	
PHOSPHORIC ACID - H ₃ PO ₄					Drinks, fats and oils, pet food, yeasts... Detergents and cleaners. Metal treatment. Water treatment. Pharmaceutical: enzymes production.
PRAYPHOS P5 75 % (E338)		1.6	100	54	
PRAYPHOS P5 80 % (E338)		1.6	100	58	
PRAYPHOS P5 81,5 % (E338)		1.6	100	59	
PRAYPHOS P5 85 % (E338)		1.7	106	61	
PRAYPHOS Codex 75 % (E338)		1.6	100	54	
PRAYPHOS Codex 80 % (E338)		1.6	100	58	
PRAYPHOS Codex 81.5 % (E338)		1.6	100	59	
PRAYPHOS Codex 85 % (E338)		1.7	106	61	
PRAYPHOS D0		1.7	106	56	Fertilizers, Metal Treatment, etc.
PRAYPHOS D1		1.6	100	54	

Other concentrations upon request. Sold in bulk, IBC containers and various drum sizes.

FLUORINE SALTS



PRODUCT NAME	Made in	Main applications
SODIUM FLUORIDE - NaF		Water treatment. Treatment of vitreous glazes. As a fluorine supplement (in dental products).
FLUOPRAY NaF Tech Pure		
FLUOPRAY NaF Extra Pure		
POTASSIUM FLUOSILICATE - K ₂ SiF ₆		Fluoridation of drinking water. Latex manufacture (coagulant). Treatment of vitreous glazes and opalescent glass (opacifying agent).
FLUOPRAY PSF		
SODIUM FLUOSILICATE - Na ₂ SiF ₆		
FLUOPRAY SSF		

SPECIALITY PHOSPHATES FOR THE FOOD AND PHARMA INDUSTRY

PRODUCT RANGE	Made in	Main applications
		Tailor made blends dedicated to the processed meat, poultry and seafood. See our Carfobel specific brochure.
		Tailor made blends dedicated to the process cheese and dairy products. See our Kasomel specific brochure.
		A full range of leavening agents dedicated to the baking application. See our Praylev specific brochure.
		Specific grades for tableting. Contact us for more details

A large range of blends developed in our own food applications laboratory is available. Specific products can be developed to meet your needs. Please contact us for more information.

SPECIALITY PHOSPHATES FOR NON FOOD APPLICATIONS

PRODUCT RANGE	Made in	Main applications
		Extended range of potassium - sodium and aluminium phosphate solutions. Contact us for more details.
		Specific grades for bright dipping. Contact us for more details.
		A full range of tailor made blends for refractories, bricks, raming masses... See our Fosbind specific brochure.



PRAYON



ISO 9001:2008 (Quality) / OHSAS 18001:2007 (Health/Safety) / ISO 14001:2004 (Environment) / ISO 22000:2005 (Food Safety).
 Our food grade phosphates are allergen free, GMO free, BSE/TSE free.



U KOSHER
 Pareve Passover



NSF ANSI Standard 60



Responsible Care®



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