



Analytical and  
Pure Reagents  
with guaranteed  
specifications

## Analytical and Pure Reagents with guaranteed specifications

In ITW Reagents we know how important it is to use reagents of suitable purity and consistent batch to batch. All our products are analyzed according to their specific application and guaranteed by a rigorous quality control in our analytical laboratories.

Our portfolio includes more than 1000 products such as solvents, acids, bases and salts indicated for general analytical applications that need high purity levels and very low content of impurities. The specifications can accomplish international regulations as ISO (International Organization for Standardization), American regulations as ACS (American Chemical Society) and/or can fulfil the requirements indicated in the Pharmacopeias (Ph. Eur. or USP) for the reagents to be used for analytical purposes.

In the following table you will find a selection of reagents for general analytical applications.

For other specific applications please ask for our dedicated brochures: Reagents for HPLC and Spectroscopy, High purity reagents for pesticide residues analysis, Ultra pure reagents for metallic traces analysis, Solutions and Reagents for Volumetric analysis, Analytical Standards, Reagents for wine analysis, etc.



A

CodeW	Product Name	Complies with				Package											
		ACS	ISO	Ph. Eur.	USP	10 g	25 g	100 g/ml	250 g/ml	500 g/ml	1 kg/L	2.5 kg/L	5 kg/L	10 kg/L	25 kg/l	30 L	
131008	Acetic Acid glacial (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.7%	✓	✓	✓													(1)
141008	Acetic Acid glacial (USP, BP, Ph. Eur.) pure, pharma grade, 99.5-100.5%																(1)
122703	Acetic Acid 96% for analysis																(1)
121556	Acetic Acid 80% for analysis																(1)
127136	Acetic Acid 30% for analysis																
145365	Acetic Acid/Chloroform 3:2 - Mixture v/v pure for determination of peroxide value in oils																
131147	Acetic Anhydride (Reag. Ph. Eur.) for analysis, ACS, ISO, 99%	✓	✓														(1)
131007	Acetone (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.5%	✓	✓	✓	✓												
141007	Acetone (USP, BP, Ph. Eur.) pure, pharma grade, 99.5%																
287184	Acetone + Bromophenol blue for determination of soap content in oil																(3)
131881	Acetonitrile (Reag. Ph. Eur.) for analysis, ACS, 99.7%	✓		✓													
141792	Agar (USP-NF) pure, pharma grade				✓												
121605	Alizarin Red S (C.I. 58005) for analysis pH and adsorption indicator 3.7 yellow; 5.2 purple red																
141959	Alkylbenzyltrimethylammonium Chloride pure, 97.0-103.0%																
177137	Allylthiourea solution (1 g/L) for BOD determination aqueous solution according to DEV H 51 5.11																
141098	Aluminium metal, powder pure																
141097	Aluminium Chloride 6-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 95.0-101.0%			✓													
141812	Aluminium Hydroxide pure, 90%																
131099	Aluminium Nitrate 9-hydrate (Reag. Ph. Eur.) for analysis, ACS, 98.0-102.0%	✓		✓													
141099	Aluminium Nitrate 9-hydrate pure, 98.0-102.0%																
121100	Aluminium Oxide Basic (Reag. Ph. Eur.) for analysis for chromatography in column			✓													
131103	Aluminium Potassium Sulfate 12-hydrate for analysis, ACS, 98.0-102.0%	✓															
141103	Aluminium Potassium Sulfate 12-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%																
141101	Aluminium Sulfate 18-hydrate pure																
126352	Amido Black 10B solution for the determination of protein content in milk for analysis according to NF V 04-216																
131056	Amidosulfuric Acid (Reag. USP, Ph. Eur.) for analysis, ACS, 99.5-100.3% for determination of phosphorus	✓		✓	✓												
131130	Ammonia 30% (as NH3) for analysis, ACS, 28.0-30.0%	✓															(1)
141130	Ammonia 30% (as NH3) (USP-NF, BP, Ph. Eur.) pure, pharma grade, 27.0-30.0%																(1)
121129	Ammonia 25% (as NH3) (Reag. USP, Ph. Eur.) for analysis, 25.0-27.0%			✓	✓												(1)(2)
141129	Ammonia 25% (as NH3) (BP, Ph. Eur.) pure, pharma grade, 25.0-27.0%																(1)
121128	Ammonia 20% (as NH3) for analysis																(1)
A2616	Ammonia 10% for analysis																
131114	Ammonium Acetate (Reag. Ph. Eur.) for analysis, ACS, 98%	✓		✓													
131119	Ammonium Carbonate (Reag. Ph. Eur.) for analysis, ACS	✓		✓													
141119	Ammonium Carbonate (USP-NF) pure, pharma grade																
132748	Ammonium Cerium(IV) Sulfate 2-hydrate (Reag. USP, Ph. Eur.) for analysis, ACS, 99.0%	✓		✓	✓												
131121	Ammonium Chloride for analysis, ACS, ISO, 99.5%	✓	✓														
141121	Ammonium Chloride (USP, BP, Ph. Eur.) pure, pharma grade, 99.5-100.5%																
141125	Ammonium Dichromate moistened with 0.5-3.0% of H2O pure, 99%																
121116	Ammonium Hydrogen Carbonate (Reag. Ph. Eur.) for analysis, 99.0%			✓													
131120	di-Ammonium Hydrogen Citrate (Reag. Ph. Eur.) for analysis, ACS, 98.0-103.0%	✓		✓													
141911	Ammonium Hydrogen di-Fluoride pure, 98%																
131126	Ammonium di-Hydrogen Phosphate (Reag. Ph. Eur.) for analysis, ACS, 99%	✓		✓													
131127	di-Ammonium Hydrogen Phosphate (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓	✓												
131368	Ammonium Iron(II) Sulfate 6-hydrate (Reag. Ph. Eur.) for analysis, ISO, 99.0-101.0%			✓	✓												
131365	Ammonium Iron(III) Sulfate 12-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO, 98.5-102.0%	✓	✓	✓													
131134	Ammonium Molybdate 4-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.0%	✓	✓	✓	✓												
131135	Ammonium Nitrate for analysis, 99%																
131136	di-Ammonium Oxalate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS, 99.5-101.0%	✓		✓													
131138	Ammonium Peroxodisulphate (Reag. Ph. Eur.) for analysis, ACS, 98.0%	✓		✓													
131140	Ammonium Sulfate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.0%	✓	✓	✓													
141140	Ammonium Sulfate pure, 99%																
143299	Ammonium Sulfide solution 20% w/w pure																(1)
131143	Ammonium Thiocyanate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.0%	✓	✓	✓													
132352	Ammonium meta-Vanadate (Reag. USP, Ph. Eur.) for analysis, ACS, 99.0%	✓		✓	✓												
125715	Amyl Alcohol according to NF V 04-210 for analysis, 98% for determination of fat in milk																(2)
131156	Aniline (Reag. Ph. Eur.) for analysis, ACS, 99.5%	✓		✓													(1)
132441	Anthrone (Reag. Ph. Eur.) for analysis, ACS, 98%	✓		✓													
131013	L(+)-Ascorbic Acid for analysis, ACS, 99.0%	✓															
141013	L(+)-Ascorbic Acid (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%																
176131	Azidiol for preserving milk samples																
123581	Azomethine H (Reag. Ph. Eur.) for analysis, boron reagent			✓													

(1) Product in glass bottle with pouring ring, see page 4 - (2) See more information related to Fat content determination in Dairy products on page 15

(3) See more information about this reagent on page 7

# Analytical and Pure Reagents

with guaranteed specifications

## B-C

Code	Product Name	Complies with				Package											
		ACS	ISO	Ph. Eur.	USP	1 g	5 g	25 g	50 g	100 g/ml	250 g/ml	500 g/ml	1 kg/L	2.5 kg/L	5 kg/L	25 kg/l	200 L
B 131182	Barium Chloride 2-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.0%	✓	✓	✓								Ⓟ	Ⓟ		Ⓟ	Ⓟ	
171183	Barium Chloride solution 10% w/v for identification and quantitative determination of sulfates											Ⓟ					
131188	Barium Hydroxide 8-hydrate (Reag. Ph. Eur.) for analysis, ISO, 98.0%		✓	✓								Ⓟ	Ⓟ				
131192	Benzene (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.5%	✓	✓	✓									Ⓜ	Ⓜ		Ⓜ	
143083	Benzethonium Chloride ( BP, Ph. Eur.) pure, pharma grade, 97.0-103.0%			✓							Ⓟ						
131014	Benzoic Acid for analysis, ACS	✓									Ⓟ						
141014	Benzoic Acid (USP, BP, Ph. Eur.) pure, pharma grade, 99.5-100.5%											Ⓟ	Ⓟ				
142357	Benzoyl Peroxide humidified with ~ 25% of H2O (USP, BP, Ph. Eur.) pure, pharma grade, 98%											Ⓟ					
131081	Benzyl Alcohol for analysis, ACS, 99.5%	✓											Ⓜ				
141081	Benzyl Alcohol (USP-NF, BP, Ph. Eur.) pure, pharma grade, 98.0-100.5%			✓									Ⓜ				
143977	D(+)-Biotin (USP) pure, pharma grade, 98.5-102.0%					Ⓜ			Ⓜ	Ⓟ							
132371	2,2'-Bipyridine (Reag. USP) for analysis, ISO, 99.5%		✓		✓			Ⓜ									
131196	Bismuth(III) Nitrate 5-hydrate for analysis, ACS, 98.0%	✓								Ⓟ		Ⓟ					
125417	Blue Primary Solution (BP, Ph. Eur.) for analysis for determination of the coloration grade in liquids									Ⓟ							
131015	Boric Acid for analysis, ACS, ISO, 99.8%	✓	✓									Ⓟ	Ⓟ		Ⓟ	Ⓟ	
141015	Boric Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%											Ⓟ	Ⓟ		Ⓟ		
131199	Bromine (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.5%	✓	✓	✓						Ⓜ							
141199	Bromine pure, 99%										Ⓜ						(1)
126294	Bromine solution 1%, in hydrobromic acid for analysis												Ⓜ				(1)
125535	Bromine Index AMDS solution for analysis													Ⓜ			(1)
171072	Bromine Water saturated solution											Ⓜ					
131759	Bromocresol Green for analysis, ACS pH indicator 3.8 yellow; 5.4 blue	✓					Ⓜ	Ⓜ									
121546	Bromocresol Purple for analysis pH indicator 5.2 greenish yellow; 6.8 bluish purple							Ⓜ									
144747	2-Bromo-2-Nitro-1,3-Propanediol (BP) pure, pharma grade, 99.0-101.0%									Ⓟ							
131165	Bromophenol Blue for analysis, ACS pH indicator 3.0 greenish yellow; 4.6 blue	✓					Ⓜ	Ⓜ									
131167	Bromothymol Blue for analysis, ACS pH indicator 6.0 yellow; 7.6 blue	✓					Ⓜ	Ⓜ									
177177	Buffer Solution pH 5.5 (20°C) for determination of aluminium														Ⓟ		
131082	1-Butanol (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.5%	✓	✓	✓	✓								Ⓜ	Ⓜ	Ⓟ		
123851	2-Butanol (Reag. Ph. Eur.) for analysis, 99.0%			✓									Ⓜ	Ⓜ			
131429	Butanone (Methylethylketone) (Reag. USP, Ph. Eur.) for analysis, ACS, 99.5%	✓		✓	✓								Ⓜ	Ⓜ	Ⓟ		
141429	Butanone (Methylethylketone) pure, 99.5%												Ⓟ	Ⓟ	Ⓟ		
131202	n-Butyl Acetate (Reag. USP, Ph. Eur.) for analysis, ACS	✓		✓	✓								Ⓜ				Ⓜ
142825	Butylhydroxytoluene (BP, Ph. Eur.) pure, pharma grade, 99.0%			✓									Ⓟ				
133312	tert-Butyl Methyl Ether (Reag. USP, Ph. Eur.) for analysis, ACS, 99.8%	✓		✓	✓								Ⓜ	Ⓜ			
143312	tert-Butyl Methyl Ether pure, 99.5%												Ⓜ	Ⓜ			

Keep yourself safe and the work area clean using our glass bottles with pouring ring!

For corrosive products, such as acids and bases, we use glass bottles with pouring ring.

The pouring ring prevents from any drop sliding down the outside of the bottle that could destroy the label, the surface area or could harm the user.





C

Code	Product Name	Complies with				Package									
		ACS	ISO	Ph. Eur.	USP	25 g	100 g/ml	125 ml	250 g/ml	500 g/ml	1 kg/L	2.5 kg/L	5 kg/L	25 kg/L	30 L
121209	Cadmium Iodide for analysis, 99.0%								☞						
131208	Cadmium Sulfate 8/3-hydrate for analysis, ACS, 99.0-102.0%	✓							☞						
142833	Caffeine anhydrous (USP, BP, Ph. Eur.) pure, pharma grade, 98.5-101.0%			✓			☞				☞		☞		
141211	Calcium Acetate x-hydrate (USP) pure, pharma grade, 99.0-100.5%										☞				
121212	Calcium Carbonate precipitated for analysis, 99.0%									☞	☞				
141212	Calcium Carbonate precipitated (USP, BP, Ph. Eur.) pure, pharma grade, 98.5-100.5%									☞	☞				
141221	Calcium Chloride anhydrous pure, 95%									☞	☞				
147120	Calcium Chloride dried, powdered pure, 97%										☞		☞		
131232	Calcium Chloride 2-hydrate powder for analysis, ACS, 99.0-105.0%	✓								☞	☞		☞	☞	
121214	Calcium Chloride 6-hydrate for analysis, 98.0%										☞		☞	☞	
142400	Calcium Hydroxide, powder (USP, BP, Ph. Eur., JP) pure, pharma grade, 95.0-100.5%										☞		☞		
171230	Calcium Lactate 5-hydrate for soil testing, 98%										☞		☞		
131231	Calcium Nitrate 4-hydrate for analysis, ACS, 99.0-103.0%	✓									☞		☞	☞	
141228	tri-Calcium Phosphate (BP, Ph. Eur.) pure, pharma grade, 35.0-40.0% (as Ca)									☞					
131235	Calcium Sulfate 2-hydrate for analysis, ACS, 98.0-101.0%	✓								☞					
123575	Calconcarboxylic Acid (Reag. Ph. Eur.) for analysis for complexometry			✓		☞									
131244	Carbon Disulfide for analysis, ACS, 99.9%	✓									☞				
173355	Carrez's Reagent I for precipitation of proteins										☞		☞		
173356	Carrez's Reagent II for precipitation of proteins										☞		☞		
121248	Cerium(IV) Sulfate 4-hydrate (Reag. USP, Ph. Eur.) for analysis, 98%			✓	✓		☞		☞				☞		
122509	Cesium Chloride for analysis, 99.5%					☞	☞								
143143	Cetyl Alcohol (USP-NF, BP, Ph. Eur.) pure, pharma grade, 95.0-102.0%			✓									☞		
122054	Cetyltrimethylammonium Bromide for analysis, 99.0%								☞						
121237	Charcoal Activated powder for analysis, bleaching agent									☞				☐	
141975	Chloral Hydrate (BP, Ph. Eur.) pure, pharma grade, 98.5-101.0%			✓						☞	☞		☞		
132323	Chloramine T 3-hydrate (Reag. USP) for analysis, ACS	✓			✓		☞								
142323	Chloramine T 3-hydrate (BP, Ph. Eur.) pure, pharma grade, 98.0-103.0%								☞				☞		
286301	Chlorine Reagent DPD for Swan analyzers						☞								
141953	Chlorobenzene pure, 99%										☞	☞			
124856	Chlorobenzene / Acetic Acid 2:1 (Mixture TBN) (ASTM D2896) for analysis										☞	☞			
133101	Chloroform stabilized with ~ 50 ppm of amylene (Reag. USP, Ph. Eur.) for analysis, ACS, 99.8%	✓		✓	✓						☞	☞			
131252	Chloroform stabilized with ethanol (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.8%	✓	✓	✓	✓						☞	☞			II
141252	Chloroform stabilized with ethanol pure, 99.8%										☞	☞	☐		
145226	4-Chloro-3-Methylphenol (USP-NF, BP, Ph. Eur.) pure, pharma grade, 99.0-101.0%										☞				
142014	Chromium(III) Chloride 6-hydrate pure, 95.0%										☞				
121275	Chromium(III) Nitrate 9-hydrate for analysis, 98.0%													☞	
121153	Chromium(VI) Oxide (Reag. Ph. Eur.) for analysis, 98.5%			✓							☞				
131808	Citric Acid anhydrous for analysis, ACS, 99.5%	✓								☞	☞		☞	☞	
141808	Citric Acid anhydrous (USP, BP, Ph. Eur., JP) pure, pharma grade, 99.5-100.5%									☞	☞		☞	☞	
131018	Citric Acid 1-hydrate for analysis, ACS, ISO, 99.5-102.0%	✓	✓							☞	☞		☞	☞	
141018	Citric Acid 1-hydrate (USP, BP, Ph. Eur., JP) pure, pharma grade, 99.5-100.5%										☞		☞		
131257	Cobalt(II) Chloride 6-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.0-102.0%	✓	✓	✓			☞		☞				☞		
141257	Cobalt(II) Chloride 6-hydrate pure, 98%						☞		☞		☞				
131258	Cobalt(II) Nitrate 6-hydrate (Reag. Ph. Eur.) for analysis, ACS, 98.0-102.0%	✓		✓			☞			☞					
141259	Cobalt(II) Sulfate 7-hydrate pure, 98%									☞				☞	
141278	Collodion solution 4% w/v (USP) pure, pharma grade								☞		☞				
173655	Concentrated solution for the sand equivalent determination according to NF EN 933-8:1999 and UNE-EN 933-8:2000							☞							
121611	Congo Red (C.I. 22120) for analysis					☞									
141266	Copper metal, powder pure					☞			☞						
131264	Copper(II) Chloride 2-hydrate (Reag. USP, Ph. Eur.) for analysis, ACS, 99.0%	✓		✓	✓					☞	☞				
172308	Copper(II) Ethylenediamine Reagent for determination of cellulose paste viscosity										☞	☞			
131267	Copper(II) Nitrate 3-hydrate (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓						☞					
141269	Copper(II) Oxide pure, 96%										☞				
122726	Copper(II) Sulfate anhydrous (Reag. USP) for analysis, 98%				✓				☞				☞		
142726	Copper(II) Sulfate anhydrous (BP, Ph. Eur.) pure, pharma grade, 99.0-101.0%								☞		☞		☞		
131270	Copper(II) Sulfate 5-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99-101%	✓	✓	✓	✓					☞	☞		☞	☞	
131762	Crystal Violet (C.I. 42555) for analysis, ACS, 90.0% indicator in non aqueous medium	✓					☞								
131250	Cyclohexane (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.5%	✓	✓	✓	✓						☞	☞	☐	☐	
141250	Cyclohexane pure, 99.5%														II

(2) See more information related to Fat content determination in Dairy products on page 15

# Analytical and Pure Reagents D-G

with guaranteed specifications

	Code	Product Name	Complies with				Package													
			ACS	ISO	Ph. Eur.	USP	1 g	5 g	25 g	100 g/ml	250 g/ml	500 g/ml	1 kg/L	2 kg	2.5 kg/L	4 L	5 kg/L	10 kg/L	25 kg/l	30 L
D	175055	Detergent Acid Solution																		
	175054	Detergent Neutral Solution																		
	133534	1,2-Diaminocyclohexane-N,N,N',N'-Tetraacetic Acid 1-hydrate (Reag. Ph. Eur.) for analysis, ACS, 97.5-100.5%	✓		✓															
	131286	1,2-Dichloroethane (Reag. Ph. Eur.) for analysis, ACS, 99.5%	✓		✓															
	133606	2',7'-Dichlorofluorescein (Reag. Ph. Eur.) for analysis, ACS	✓		✓															
	131254	Dichloromethane stabilized with ~ 20 ppm for amylene for analysis, ACS, ISO, 99.8%	✓	✓																
	132056	2,6-Dichlorophenol Indophenol Sodium Salt 2-hydrate (Reag. Ph. Eur.) for analysis, ACS	✓		✓															
	131288	Diethylamine (Reag. USP, Ph. Eur.) for analysis, ACS, 99.5%	✓		✓	✓														
	132770	Diethyl Ether stabilized with ~ 6 ppm of BHT (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.7%	✓	✓	✓	✓														
	142770	Diethyl Ether stabilized with ~ 6 ppm of BHT pure, 99.5%																		
	131314	Di-Isopropyl Ether stabilized with ~ 50 ppm of BHT for analysis, ACS, 99.0%	✓																	
	123145	N,N-Dimethylacetamide (Reag. Ph. Eur.) for analysis			✓	✓														
	131785	N,N-Dimethylformamide (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.8%	✓	✓	✓															
	131293	4-(Dimethylamino) Benzaldehyde (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓															
	131954	Dimethyl Sulfoxide (Reag. Ph. Eur.) for analysis, ACS, 99.9%	✓		✓	✓														
	191954	Dimethyl Sulfoxide (USP, BP, Ph. Eur.) pharma grade, 99.9%																		
	122844	Dimidium Bromide (Reag. Ph. Eur.) for analysis, 95% for determination of surfactants			✓															
	122325	2,4-Dinitrophenylhydrazine moistened with ~ 33% of H2O (Reag. Ph. Eur.) for analysis, 99.0%			✓															
	131296	1,4-Dioxan stabilized with ~ 25 ppm of BHT (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.5%	✓	✓	✓															
	141296	1,4-Dioxan stabilized with ~ 25 ppm of BHT pure, 99.5%																		
	131828	Diphenylamine (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓															
	123577	1,5-Diphenylcarbazine for analysis redox indicator																		
	132228	1,5-Diphenylcarbazon (contains diphenylcarbazine) (Reag. Ph. Eur.) for analysis, ACS	✓		✓															
E	131026	EDTA for analysis, ACS, 99.4-100.6%	✓																	
	141026	EDTA (USP-NF, BP, Ph. Eur.) pure, pharma grade, 98.0-100.5%																		
	144559	EDTA Calcium Disodium Salt (USP, BP, Ph. Eur.) pure, pharma grade, 98.0-102.0%			✓															
	131669	EDTA Disodium Salt 2-hydrate (Reag. Ph. Eur.) for analysis, ACS, 99.0-101.0%	✓		✓	✓														
	141669	EDTA Disodium Salt 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-101.0%																		
	141952	EDTA Tetrasodium Salt 4-hydrate pure, 98%																		
	131299	Eosin Yellowish (C.I. 45380) for analysis, ACS adsorption indicator	✓																	
	131439	Eriochrome Black T (C.I. 14645) for analysis, ACS for complexometry	✓																	
	131086	Ethanol absolute for analysis, ACS, ISO, 99.8%	✓	✓																
	A1613 *	Ethanol absolute for analysis, 99.8%																		
	141086	Ethanol absolute pure, 99.5%																		
	A4230 *	Ethanol absolute (Ph. Eur., USP) pure, pharma grade, 99.5%																		
	191086	Ethanol absolute (USP, BP, Ph. Eur.) pharma grade, 99.5%			✓															
	127194 **	Ethanol 99.8 % denatured with IPA, MEK and Bitrex for analysis																		
	131085	Ethanol 96% v/v for analysis, ACS	✓																	
	A1868 *	Ethanol 96% v/v for analysis																		
	141085	Ethanol 96% v/v (USP, BP, Ph. Eur.) pure, pharma grade			✓	✓														
	A1615 *	Ethanol 96% v/v (Ph. Eur., BP) pure, pharma grade																		
	A2192 *	Ethanol 70% for analysis																		
	192695	Ethanol 70% v/v (BP) pharma grade																		
	A0913 *	Ethanol 70% (DAB) pure, pharma grade																		
	131924	Ethanolamine for analysis, ACS, 99.0%	✓																	
	A4301	2-Ethoxybenzoic Acid pure, 98%																		
	131318	Ethyl Acetate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.8%	✓	✓	✓	✓														
	121316	Ethylene Glycol (Reag. USP, Ph. Eur.) for analysis, 99.5%			✓	✓														
	141316	Ethylene Glycol pure, 99%																		
	131897	Ethylene Glycol mono-Methyl Ether for analysis, ACS, 99.5%	✓																	
	142085	Eucalyptol (USP) pure, pharma grade, 98.0-100.0%																		

(1) Product in glass bottle with pouring ring, see page 4 - (2) See more information related to Fat content determination in Dairy products on page 15

\* Only available in Germany - \*\* Only available when the customer has the authorization

	Code	Product Name	Complies with				Package									
			ACS	ISO	Ph. Eur.	USP	1 g	25 g	100 g/ml	250 g/ml	500 g/ml	1 kg/L	2.5 kg/L	5 kg/L	10 kg/L	25 kg/l
F	122389	Fluorescein Sodium (C.I. 45350) for analysis adsorption indicator							☞		☞	☞				
	A7092	Folic acid crystalline (Ph. Eur., USP) pure, pharma grade, 97.0-102.0%			✓			☞	☞							
	131328	Formaldehyde 37-38% w/w stabilized with methanol for analysis, ACS	✓								☞	☞	☞			☞
	141328	Formaldehyde 37-38% w/w stabilized with methanol (USP, BP, Ph. Eur.) pure, pharma grade									☞	☞	☞			
	143091	Formaldehyde solution 10% neutralized, stabilized with methanol pure											☞	☞		
	131956	Formamide for analysis, ACS, 99.5%	✓									☞				
	141956	Formamide pure, 99%										☞				
	131030	Formic Acid 98% for analysis, ACS	✓									☞	☞			☞
	141030	Formic Acid 98% pure										☞	☞			
	121029	Formic Acid 85% for analysis										☞	☞			
G	141029	Formic Acid 85% pure										☞		☞		
	142728	D(-)-Fructose (USP, BP, Ph. Eur.) pure, pharma grade, 98.0-102.0%			✓						☞					
	142173	D(+)-Galactose (Ph. Eur.) pure, pharma grade			✓							☞				
	147116	Gelatin powdered, (Ph. Eur., NF) pure, pharma grade			✓						☞		☞			
	142060	Gelatine 80-100 Blooms (USP-NF, BP, Ph. Eur.) pure, pharma grade			✓						☞					
	131341	D(+)-Glucose anhydrous for analysis, ACS	✓								☞	☞		☞		☞
	141341	D(+)-Glucose anhydrous (USP, BP, Ph. Eur.) pure, pharma grade, 97.5-102.0%									☞	☞		☞		
	143140	D(+)-Glucose 1-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 97.5-102.0%										☞				
	131339	Glycerol for analysis, ACS, ISO, 99.5%	✓	✓								☞	☞	☞		
	141339	Glycerol (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-101.0%										☞	☞	☞		
	122329	Glycerol 87% for analysis, 86.0-88.0%										☞		☞		
	142329	Glycerol 87% (BP, Ph. Eur.) pure, pharma grade, 83.5-88.5%										☞		☞		
	131340	Glycine (Reag. USP) for analysis, ACS, 99.0%	✓			✓				☞		☞		☞		
	141340	Glycine (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-101.0%										☞		☞		
	141448	Gold(III) Chloride-Sodium Chloride~ 49% Au pure					✎									
	171569	Griess-Ilosvay's A Reagent for detection of nitrites							☞							
	171570	Griess-Ilosvay's B Reagent for detection of nitrites							☞							
	144229	Guanidine Hydrochloride pure, 98%										☞		☞		

(1)

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## Acetone + Bromophenol blue 4.5 mg/l for determination of soap content in oils and fats, code 287184.1214

Soaps are salts of fatty acids obtained from a reaction that occurs between free fatty acids and sodium carbonate. Thanks to their water solubility and insolubility in oil, they can be separated from fat through specific procedures.

Food industries use this technique to lower fat acidity and to enhance its organoleptic characteristics. For such industries, it is important to carry out a chemical analysis for determining the concentration of soaps in oils and fats.

At specific pH values soaps mixed with bromophenol, generate a specific blue colour. Its intensity is directly proportional to the concentration of soaps in the sample.



# Analytical and Pure Reagents H-M

with guaranteed specifications

	Code	Product Name	Complies with				Package								
			ACS	ISO	Ph. Eur.	USP	1 g	100 g/ml	250 g/ml	500 g/ml	1 kg/L	2.5 kg/L	5 kg/L	25 kg/l	30 L
H	122062	n-Heptane for analysis													
	142062	n-Heptane pure													
	121345	Heptane, alkanes mixture for analysis													
	134433	Hexachloroplatinic(IV) Acid 6-hydrate (Reag. Ph. Eur.) for analysis, ACS, 37.50% Pt													
	131346	Hexamethylenetetramine (Reag. Ph. Eur.) for analysis, ACS, 99.0-100.5%													
	132063	n-Hexane (Reag. USP, Ph. Eur.) for analysis, ACS													
	133242	n-Hexane 95% for analysis, ACS, 95.0%													
	143242	n-Hexane 95% pure, 95%													
	121347	Hexane, alkanes mixture for analysis, 95.0%													
	121349	Hydrazinium Hydroxide 80% for analysis													
	131350	Hydrazinium Sulfate for analysis, ACS, 99.0%													
	132213	Hydriodic Acid 57% for analysis, ACS, 55.0-58.0%													(1)
	142213	Hydriodic Acid 57% pure, 55-58%													(1)
	131017	Hydrobromic Acid 48% for analysis, ACS, ISO, 47.0-49.0%													(1)
	141017	Hydrobromic Acid 48% pure													(1)
	471020	Hydrochloric Acid 37% (max. 0.000005% Hg) for analysis, ACS, ISO													(1)
	131020	Hydrochloric Acid 37% for analysis, ACS, ISO													(1)
	141020	Hydrochloric Acid 37% (USP-NF, BP, Ph. Eur.) pure, pharma grade													(1)
	132176	Hydrochloric Acid 32% for analysis, ISO													(1)
	133378	Hydrochloric Acid 25% for analysis, ISO													(1)(2)
	143378	Hydrochloric Acid 25% pure													
	122523	Hydrochloric Acid 20% for analysis													
	142523	Hydrochloric Acid 20% pure													
	146316	Hydrochloric Acid 15% pure													
	123006	Hydrochloric Acid 10% for analysis													
	143006	Hydrochloric Acid 10% (Ph. Eur., USP-NF) pure, pharma grade													
	131028	Hydrofluoric Acid 48% for analysis, ACS, ISO													
	133070	Hydrofluoric Acid 40% for analysis, ISO													
	143070	Hydrofluoric Acid 40% pure													
	147145	Hydrogen Peroxide 35% pure													
	131077	Hydrogen Peroxide 33% w/v (110 vol.) for analysis, ACS, ISO													
	141077	Hydrogen Peroxide 33% w/v (110 vol.) stabilized (USP, BP, Ph. Eur.) pure, pharma grade													
	121076	Hydrogen Peroxide 30% w/v (100 vol.) for analysis													
	141076	Hydrogen Peroxide 30% w/v (100 vol.) stabilized pure													
	125513	Hydrogen Peroxide 10% w/w for analysis													
	142660	Hydrogen Peroxide 6% stabilized (BP) pure, pharma grade													
	141351	Hydroquinone (USP) pure, pharma grade, 99.0-100.5%													
	171386	Hydrotimetric Liquor													
	471914	Hydroxylammonium Chloride (max. 0.000001% Hg) for analysis, ACS, ISO, 99.5%													
	131914	Hydroxylammonium Chloride (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.5%													
	141914	Hydroxylammonium Chloride pure, 99%													
I	132536	Imidazole (Reag. USP, Ph. Eur.) for analysis, ACS, 99.0%													
	131771	Iodine resublimed pearls for analysis, ACS, 99.8%													
	141771	Iodine resublimed pearls (USP, BP, Ph. Eur.) pure, pharma grade, 99.8-100.5%													
	141770	Iodine mono-Bromide pure, 98%													
	141909	Iodoform pure, 99%													
	141868	Iron(II) Chloride 4-hydrate pure, 98%													
	141358	Iron(III) Chloride 6-hydrate pure, 97-102%													
	142027	Iron(III) Citrate x-hydrate pure, 16.5-18.5% Fe													
	141297	Iron(III) Nitrate 9-hydrate pure, 98%													
	131362	Iron(II) Sulfate 7-hydrate for analysis, ACS, 99.0%													
	141362	Iron(II) Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 99.5-104.5%													
	141360	Iron(III) Sulfate x-hydrate ~ 75% pure													
	131079	Isoamyl Alcohol (Reag. Ph. Eur.) for analysis, ACS, 99%													
	121079	Isoamyl Alcohol according to Gerber for analysis, 98.5% for determination of fat in milk													(2)
	131089	Isobutanol (Reag. Ph. Eur.) for analysis, ACS, 99.0%													
	141089	Isobutanol pure, 99%													
	132064	Isooctane (Reag. Ph. Eur.) for analysis, ACS, 99.0%													
	125273	Isoparaffin G for analysis													
	123501	Isopentane for analysis, 99.5%													
	143501	Isopentane pure													
	143712	Isopropyl Myristate (Ph. Eur.) pure, pharma grade, 90.0%													

(1) Product in glass bottle with pouring ring, see page 4 - (2) See more information related to Fat content determination in Dairy products on page 15



L

Code	Product Name	Complies with				Package										30 L
		ACS	ISO	Ph. Eur.	USP	5 g	10 g	25 g	50 g	100 g/ml	250 g/ml	500 g/ml	1 kg/L	2.5 kg/L	5 kg/L	
121034	L(+)-Lactic Acid for analysis, 85.0%												P			
141034	L(+)-Lactic Acid (BP, Ph. Eur.) pure, pharma grade, 95.0%												P		P	
141375	D(+)-Lactose 1-hydrate (USP-NF, BP, Ph. Eur.) pure, pharma grade			✓								P	P		PP	
122848	Lanthanum(III) Chloride 7-hydrate for analysis, 98.0%									P						
122669	Lanthanum(III) Nitrate 6-hydrate for analysis, 99%									P						
122705	Lanthanum(III) Oxide (Reag. Ph. Eur.) for analysis, 99% Flux. For AA-spectrophotometry			✓					⚠		⚠					
131466	Lead(II) Acetate 3-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.5-103.0%	✓	✓	✓								P	P			
131473	Lead(II) Nitrate (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓								P				
141475	Lead(II) Oxide (DAC) pure, pharma grade, 99.0-100.5%											P				
146257	Light liquid Paraffin (USP-NF, BP, Ph. Eur.) pure, pharma grade												P	P		
127186	Lithium Acetate 2-hydrate for analysis, 99%										P					
122903	di-Lithium tetra-Borate for analysis, 98.0%												P			
142902	Lithium Bromide pure, 98%												P			
131392	Lithium Chloride (Reag. USP, Ph. Eur.) for analysis, ACS, 99%	✓		✓	✓					P		P				
121928	Lithium Hydroxide 1-hydrate for analysis, 99%												P			
172174	Luff-Schoorl's Reagent for determination of sugar in meats												P			
M	131394	Magnesium Acetate 4-hydrate (Reag. Ph. Eur.) for analysis, ACS, 98.0-102.0%	✓		✓								P			
	131396	Magnesium Chloride 6-hydrate for analysis, ACS, ISO, 99.0-102.0%	✓	✓								P	P			PP
	141396	Magnesium Chloride 6-hydrate (BP, Ph. Eur.) pure, pharma grade, 98.0-101.0%									P		P		PP	
	131402	Magnesium Nitrate 6-hydrate (Reag. Ph. Eur.) for analysis, ACS, 98.0-102.0%	✓		✓								P			PP
	141276	Magnesium Oxide light (BP, Ph. Eur.) pure, pharma grade, 98.0-100.5%			✓							P	□			
	142486	Magnesium Sulfate anhydrous pure, 98%											P		PP	
	131404	Magnesium Sulfate 7-hydrate for analysis, ACS, 99.5-102.0%	✓									P	P		PP	PP
	141404	Magnesium Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%										P	P		PP	
	141882	Maleic Acid (BP, Ph. Eur.) pure, pharma grade, 99.0-101.0%											P			
	142051	DL-Malic Acid (USP-NF) pure, pharma grade, 99.0-100.5%													PP	
	141797	D(+)-Maltose 1-hydrate pure								P					PP	
	131410	Manganese(II) Chloride 4-hydrate for analysis, ACS, 98.0-101.0%	✓									P				
	123224	Manganese(II) Nitrate 4-hydrate for analysis, 98%														PP
	131413	Manganese(II) Sulfate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS, 98.0-101.0%	✓		✓							P	P			PP
	132067	D(-)-Mannitol for analysis, ACS, 98.0%	✓									P	P			
	142067	D(-)-Mannitol (USP, BP, Ph. Eur.) pure, pharma grade, 97.0-102.0%										P	P		PP	
	131421	Mercury metal tridistilled (Reag. Ph. Eur.) for analysis, ACS for polarography	✓		✓								⚠			
	141421	Mercury metal pure											⚠			
	131417	Mercury(II) Acetate (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓					P						
	131419	Mercury(II) Chloride for analysis, ACS, 99.5%	✓							P	P					
	121428	Mercury(II) Iodide red for analysis								P			P			
	132166	Mercury(II) Sulfate for analysis, ACS, 99% for determination of COD	✓							P	P					PP
	142166	Mercury(II) Sulfate pure, 98%								P	P		P			
	131091	Methanol (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.9%	✓	✓	✓	✓							⚠P	⚠P	P	II
	141091	Methanol (USP-NF, BP, Ph. Eur.) pure, pharma grade											P	P	P	
	145398	1-Methoxy-2-Propanol pure, 99.5%												⚠		
	121170	Methylene Blue (C.I. 52015) for analysis, 82%						⚠		⚠						
	143332	Methyl 4-Hydroxybenzoate (USP-NF, BP, Ph. Eur., JP) pure, pharma grade, 99.0-100.5%			✓							P				
	131430	4-Methyl-2-Pentanone (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓								⚠			P
	131903	2-Methyl-2-Propanol (Reag. Ph. Eur.) for analysis, ACS, 99.5%	✓		✓								⚠		P	
	133080	1-Methyl-2-Pyrrolidone for analysis, ACS, 99.5%	✓										⚠			
	131431	Methyl Orange (C.I. 13025) for analysis, ACS pH indicator 3,2 red; 4,4 yellow	✓					⚠		⚠						
	131617	Methyl Red (C.I. 13020) for analysis, ACS pH indicator 4,2 red; 6,2 yellow	✓				⚠	⚠		⚠						
	131436	Murexide (C.I. 56085) (Reag. Ph. Eur.) for analysis, ACS for complexometry	✓		✓		⚠									

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# Analytical and Pure Reagents

with guaranteed specifications

## N-P

	Code	Product Name	Complies with				Package												
			ACS	ISO	Ph. Eur.	USP	5 g	10 g	25 g	50 g	100 g/ml	250 g/ml	500 g/ml	1 kg/L	2.5 kg/L	5 kg/L	10 kg/L	25 kg/l	30 L
N	132751	N-(1-Naphthyl) Ethylenediamine Dihydrochloride for analysis, ACS	✓				☞		☞										
	171581	Nessler's Reagent for determination of ammonia and ammonia salts										☞							
	141443	Nickel(II) Chloride 6-hydrate pure, 98%												☞					
	121445	Nickel(II) Sulfate 6-hydrate for analysis, 99%												☞					
	132362	Ninhydrin for analysis, ACS	✓				☞				☞			☞					
	121038	Nitric Acid fuming (Reag. Ph. Eur.) for analysis, 99.5%			✓									☞					
	131037	Nitric Acid 69% for analysis, ACS, ISO	✓	✓										☞	☞				(1)
	141037	Nitric Acid 69% (USP-NF, BP, Ph. Eur.) pure, pharma grade												☞	☞	☞			(1)
	473255	Nitric Acid 65% (max. 0.0000005% Hg) for analysis												☞	☞				(1)
	133255	Nitric Acid 65% for analysis, ISO		✓										☞	☞	☞		☞	(1)
	143255	Nitric Acid 65% pure												☞	☞	☞			(1)
	121737	Nitric Acid 53% for analysis												☞					(1)
	127084	Nitric Acid 20% for analysis												☞	☞				
	147071	Nitric Acid 3% pure													☞				
	142346	Nitrioltriacetic Acid pure , 98%												☞					
O	131447	Nitrobenzene (Reag. Ph. Eur.) for analysis, ACS	✓		✓									☞					
	142659	Oleic Acid (Ph. Eur.) pure, pharma grade, 65.0-88.0%												☞	☞				
	131041	Oxalic Acid 2-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.5-102.5%	✓	✓	✓								☞	☞		☞		☞	
	141041	Oxalic Acid 2-hydrate pure, 99%										☞	☞						
	175145	Oxi-Oleo-Test kit for determination of the deterioration degree of fried fats and oils																	
P	142774	Palladium(II) Chloride pure, 59% Pd					☞												
	143209	Paraffin M.P. 51-53°C pellets (USP-NF, BP, Ph. Eur.) pure, pharma grade												☞					
	147065	Paraffin M.P. 58-60°C pellets (Ph. Eur.) pure, pharma grade												☞					
	141451	Paraformaldehyde (DAC) pure, pharma grade, 95.0-100.5%												☞					
	122006	n-Pentane (Reag. USP, Ph. Eur.) for analysis, 99.0%			✓	✓								☞	☞			☞	
	142006	n-Pentane pure, 98%												☞	☞	☞		☞	
	141884	1-Pentanol pure, 98%												☞					
	143495	Peracetic Acid 15% pure												☞		☞			
	132175	Perchloric Acid 70% for analysis, ACS, ISO	✓	✓										☞	☞				(1)
	142175	Perchloric Acid 70% pure												☞	☞				(1)
	131054	Perchloric Acid 60% for analysis, ACS, ISO	✓	✓										☞	☞			☞	(1)
	132320	Periodic Acid (Reag. USP, Ph. Eur.) for analysis, ACS, 99.0-101.0%	✓		✓	✓					☞								
	142320	Periodic Acid pure, 98%									☞								
	122699	Petroleum Ether 30-40°C for analysis												☞		☞			
	131315	Petroleum Ether 40-60°C for analysis, ACS, ISO	✓	✓										☞	☞	☞	☞	☞	(2)
	141315	Petroleum Ether 40-60°C pure																☞	
	121862	Petroleum Ether 50-70°C for analysis												☞					
	122701	Petroleum Ether 60-80°C for analysis												☞		☞	☞		
	124809	Petroleum Ether 100-120°C for analysis												☞					
	125286	Petroleum Ether 190-250°C-Kerosene for analysis													☞	☞			
	131321	1,10-Phenanthroline 1-hydrate for analysis, ACS, 99.0% redox indicator	✓				☞		☞										
	131322	Phenol for analysis, ACS, 99.5%	✓											☞					(1)
	134852	Phenol crystalline for analysis, ACS, 99.5%	✓									☞		☞					
	144852	Phenol crystalline (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%												☞		☞			
	141323	Phenol 90% aqueous solution (USP) pure, pharma grade												☞					(1)
	131325	Phenolphthalein (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓						☞		☞						
	131615	Phenol Red for analysis, ACS pH indicator 6,8 yellow; 8,2 red	✓				☞			☞									
	125396	Phenol-1,1,2,2-Tetrachloroethane 60:40 w/w for analysis for determination of the viscosity of polymers, according to ASTM D 4603, ISO 1628													☞				
	131031	Phosphomolybdic Acid x-hydrate for analysis, ACS	✓						☞		☞								
	135324	meta-Phosphoric Acid stabilized with NaPO3 (Reag. Ph. Eur.) for analysis, ACS, 33.5-36.5% (as HPO3)	✓		✓						☞	☞							
	131032	ortho-Phosphoric Acid 85% for analysis, ACS, ISO	✓	✓										☞	☞	☞			
	141032	ortho-Phosphoric Acid 85% (USP-NF, BP, Ph. Eur.) pure, pharma grade												☞	☞	☞			
	121660	ortho-Phosphoric Acid 50% for analysis												☞					(1)
	147067	ortho-Phosphoric Acid 25% pure												☞	☞				
	127143	ortho-Phosphoric Acid 10% for analysis												☞					
	147143	ortho-Phosphoric Acid 10% (Ph. Eur., USP-NF) pure, pharma grade														☞			
	147146	ortho-Phosphoric Acid 5% pure															☞		
	123573	Phosphorous Acid 98% for analysis												☞					
	131154	di-Phosphorus Pentoxide (Reag. Ph. Eur.) for analysis, ACS, ISO, 98.0%	✓	✓	✓								☞						

(1) Product in glass bottle with pouring ring, see page 4 - (2) See more information related to Fat content determination in Dairy products on page 15

Code	Product Name	Complies with				Package								
		ACS	ISO	Ph. Eur.	USP	1 g	100 g/ml	250 g/ml	500 g/ml	1 kg/L	2.5 kg/L	5 kg/L	10 kg/L	25 kg/l
141048	Picric Acid moistened with ~ 33% of H2O (Reag. Ph. Eur.) pure, 98.0%			✓										
142436	Polyethylene Glycol 400 (USP-NF, BP, Ph. Eur.) pure, pharma grade													
121479	Potassium Acetate for analysis													
141479	Potassium Acetate (BP, Ph. Eur.) pure, pharma grade, 99.0-101.0%													
131159	Potassium Antimony(III) Tartrate 3-hydrate for analysis, ACS, 99.0-103.0%	✓												
131487	Potassium Bromate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.8%	✓	✓	✓										
131489	Potassium Bromide for analysis, ACS, 99.5%	✓												
141489	Potassium Bromide (BP, USP, Ph. Eur.) pure, pharma grade, 98.5-100.5%													
131490	Potassium Carbonate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.0%	✓	✓	✓										
141490	Potassium Carbonate pure, 99%													
131493	Potassium Chlorate (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓	✓									
131494	Potassium Chloride for analysis, ACS, ISO, 99.5-100.5%	✓	✓											
191494	Potassium Chloride (USP, BP, Ph. Eur.) pharma grade, 99.0-100.5%													
131497	Potassium Chromate (max. 0.02% Na) (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓										
141497	Potassium Chromate pure, 99.0-102.0%													
131491	Potassium Cyanide (Reag. Ph. Eur.) for analysis, ACS, ISO, 97.0%	✓	✓	✓										
131500	Potassium Dichromate for analysis, ACS, ISO, 99.5%	✓	✓											
177074	Potassium Dichromate 0.005 mol/l with 20 g/l of Mercury(II) Sulfate for determination of COD													
177085	Potassium Dichromate 0.02 mol/l with 80 g/l of Mercury(II) Sulfate for determination of COD													
121522	Potassium Disulfite for analysis, 96.0%													
121976	Potassium Fluoride for analysis, 99%													
147058	Potassium Fluoride solution 33% pure													
125507	Potassium Hexachloroplatinate(IV) (Reag. USP) for analysis, 40% (as Pt)				✓									
131503	Potassium Hexacyanoferrate(III) (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓										
131505	Potassium Hexacyanoferrate(II) 3-hydrate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.0-102.0%	✓	✓	✓										
121480	Potassium Hydrogen Carbonate for analysis, 99.5-101%													
141480	Potassium Hydrogen Carbonate (USP, BP, Ph. Eur.) pure, pharma grade, 99.5-101.0%													
142697	Potassium Hydrogen Diiodate pure, 99%													
131509	Potassium di-Hydrogen Phosphate for analysis, ACS, 99.0%	✓												
141509	Potassium di-Hydrogen Phosphate (USP-NF, BP, Ph. Eur.) pure, pharma grade, 98.0-100.5%													
131512	di-Potassium Hydrogen Phosphate anhydrous (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓	✓									
121512	di-Potassium Hydrogen Phosphate anhydrous for analysis, 99.0%													
141512	di-Potassium Hydrogen Phosphate anhydrous (BP, Ph. Eur.) pure, pharma grade, 98.0-100.5%													
122333	di-Potassium Hydrogen Phosphate 3-hydrate for analysis, 99%													
131481	Potassium Hydrogen Phthalate for analysis, ISO		✓											
141481	Potassium Hydrogen Phthalate pure, 99-101%													
121485	Potassium Hydrogen Sulfate for analysis, 96%													
131515	Potassium Hydroxide 85% pellets for analysis, ACS, ISO	✓	✓											
121515	Potassium Hydroxide 85% pellets for analysis, 85%													
141515	Potassium Hydroxide 85% pellets (USP-NF, BP, Ph. Eur.) pure, pharma grade, 85.0-100.5%													
142403	Potassium Hydroxide solution 50% pure													
131540	Potassium Iodate (Reag. Ph. Eur.) for analysis, ACS, 99.4-100.4%	✓		✓										
131542	Potassium Iodide for analysis, ACS, ISO, 99.5%	✓	✓											
141542	Potassium Iodide (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%													
171543	Potassium Iodide solution 10% w/v													
131524	Potassium Nitrate without anticaking (Reag. Ph. Eur.) for analysis, ISO, 99.0%		✓	✓										
121526	di-Potassium Oxalate 1-hydrate for analysis, 99.0%													
471527	Potassium Permanganate (max. 0.000005% Hg) for analysis, ACS	✓												
131527	Potassium Permanganate for analysis, ACS, 99.0%	✓												
141527	Potassium Permanganate (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%													
121525	Potassium Peroxodisulphate (Reag. Ph. Eur.) for analysis, 99.0%			✓										
141513	tri-Potassium Phosphate 1.5-hydrate pure, 95%													
131729	Potassium Sodium Tartrate 4-hydrate for analysis, ACS, ISO, 99.0-102.0%	✓	✓											
141531	Potassium Sorbate (USP-NF, BP, Ph. Eur.) pure, pharma grade, 99.0-101.0%													
131532	Potassium Sulfate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.0%	✓	✓	✓										
141532	Potassium Sulfate pure, 98%													
131534	Potassium Thiocyanate (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.0%	✓	✓	✓										
141534	Potassium Thiocyanate pure, 98%													
141545	1,2-Propanediol (USP, BP, Ph. Eur., JP) pure, pharma grade, 99.5%			✓										
131885	1-Propanol (Reag. USP, Ph. Eur.) for analysis, ACS, 99.5%	✓		✓	✓									
131090	2-Propanol (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.8%	✓	✓	✓	✓									
141090	2-Propanol (USP, BP, Ph. Eur.) pure, pharma grade, 99.5%													
145618	2-Propanol 70% v/v pure													
141962	n-Propyl Gallate (Ph. Eur.) pure, pharma grade, 98.0-102.0%													
141074	Purified Water (BP, Ph. Eur.) pure, pharma grade			✓										
131457	Pyridine (Reag. Ph. Eur.) for analysis, ACS, 99.5%	✓		✓										
131050	Pyrogallic Acid (Reag. Ph. Eur.) for analysis, ACS, 99%	✓		✓										

(1)

# Analytical and Pure Reagents R-S

with guaranteed specifications

	Code	Product Name	Complies with				Package										
			ACS	ISO	Ph. Eur.	USP	5 g	25 g	50 g	100 g/ml	250 g/ml	500 g/ml	1 kg/L	2.5 kg/L	5 kg/L	10 kg/L	25 kg/l
R	125416	Red Primary Solution (BP, Ph. Eur.) for analysis for determination of the coloration grade in liquids															
	121591	Resazurin Sodium Salt for analysis pH indicator 5.0 pink; 7.0 blue violet															
S	141603	Resorcinol (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%			✓												
	141045	Salicylic Acid (USP, BP, Ph. Eur.) pure, pharma grade, 99.5-100.5%															
	132363	SDS for analysis, ACS for determination of surfactants	✓														
	142363	SDS (USP-NF, BP, Ph. Eur.) pure, pharma grade, 85.0%															
	146132	SDS solution 10% w/v pure															
	121160	Sea Sand for analysis															
	141625	Selenium metal powder pure, 99%															
	135571	Silica Gel 2.5-6 mm with indicator (without cobalt chloride) for analysis, ACS	✓														
	131335	Silica Gel 3-5 mm with indicator (with cobalt chloride) for analysis, ACS	✓														
	142475	Siliceous Earth purified and calcined (USP-NF) pure, pharma grade															
	131459	Silver Nitrate for analysis, ACS, ISO, 99.8%	✓	✓													
	141459	Silver Nitrate (BP, Ph. Eur.) pure, pharma grade, 99.8-100.5%															
	131801	Silver Sulfate for analysis, ACS, 99.0%	✓														
	283098	Silver Sulfate solution 10 g/l in sulfuric acid for volumetric analysis for determination of COD according to Norme Française NFT 90-101															(1)
	282922	Silver Sulfate solution 6.6 g/l in sulfuric acid for volumetric analysis for determination of COD															(1)
	141699	Sodium metal, 99.8%, oiled sticks, wrapped in aluminium foil pure															
	131633	Sodium Acetate anhydrous (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓	✓											
	131632	Sodium Acetate 3-hydrate for analysis, ACS, ISO, 99.0-101.0%	✓	✓													
	141632	Sodium Acetate 3-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-101.0%															
	143865	Sodium L(+)-Ascorbate (USP) pure, pharma grade, 99.0-101.0%															
	122712	Sodium Azide (Reag. USP, Ph. Eur.) for analysis, 99.0%			✓	✓											
	141637	Sodium Benzoate (USP-NF, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%															
	123052	di-Sodium tetra-Borate anhydrous for analysis, 98.0% flux															
	131644	di-Sodium tetra-Borate 10-hydrate for analysis, ACS, ISO, 99.5-103.0%	✓	✓													
	141644	di-Sodium tetra-Borate 10-hydrate (USP-NF, BP, Ph. Eur.) pure, pharma grade, 99.0-103.0%															
	123314	Sodium Borohydride for analysis															
	141646	Sodium Bromide (BP, Ph. Eur.) pure, pharma grade, 98.5-100.5%															
	131648	Sodium Carbonate anhydrous (Reag. Ph. Eur.) for analysis, ACS, 99.5%	✓		✓												
	141648	Sodium Carbonate anhydrous (USP-NF, BP, Ph. Eur.) pure, pharma grade, 99.5-100.5%															
	131647	Sodium Carbonate 10-hydrate for analysis, ISO, 99.0-102.0%			✓												
	131659	Sodium Chloride for analysis, ACS, ISO, 99.5%	✓	✓													
	141659	Sodium Chloride (USP, BP, Ph. Eur., JP) pure, pharma grade, 99.0-100.5%															
	146994	Sodium Chloride pure, free-flowing, 99%															
	171659	Sodium Chloride ASTM B117-11, 99.7% for saline spray (fog)															
	175305	Sodium Chloride solution ASTM B117-11, 4-6% for saline spray (fog)															
	121664	Sodium Chromate for analysis, 99.0%															
	131655	tri-Sodium Citrate 2-hydrate for analysis, ACS, 99.0%	✓														
	141655	tri-Sodium Citrate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%															
	121656	tri-Sodium Citrate 5.5-hydrate for analysis, 99.0%															
	141652	Sodium Cyanide pure, 98%															
	141666	Sodium Dichromate 2-hydrate pure															
	131668	Sodium Diethyldithiocarbamate 3-hydrate (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓												
	131698	Sodium Disulfite for analysis, ACS	✓														
	141698	Sodium Disulfite (USP-NF, BP, Ph. Eur.) pure, pharma grade, 96.5-100.0%															
	131675	Sodium Fluoride for analysis, ACS, ISO, 99.0%	✓	✓													
	141675	Sodium Fluoride (USP) pure, pharma grade, 98.5-100.5%															
	131663	Sodium Hexanitrocobaltate(III) for analysis, ACS	✓														
	131638	Sodium Hydrogen Carbonate for analysis, ACS, ISO, 99.7-100.3%	✓	✓													
	141638	Sodium Hydrogen Carbonate (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%															
	122018	Sodium di-Hydrogen Phosphate anhydrous for analysis, 99-100.5%															
	131965	Sodium di-Hydrogen Phosphate 1-hydrate (Reag. Ph. Eur.) for analysis, ACS, 99.0-102.0%	✓		✓	✓											
	121677	Sodium di-Hydrogen Phosphate 2-hydrate for analysis, 99.0-101.0%															
	141677	Sodium di-Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 98.0-100.5%															
	131679	di-Sodium Hydrogen Phosphate anhydrous (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓	✓											
	141679	di-Sodium Hydrogen Phosphate anhydrous (USP, BP, Ph. Eur.) pure, pharma grade, 98.0-100.5%															
	122507	di-Sodium Hydrogen Phosphate 2-hydrate for analysis, 99.0%															
	142507	di-Sodium Hydrogen Phosphate 2-hydrate (BP, Ph. Eur.) pure, pharma grade, 98.0-100.5%															
	132656	di-Sodium Hydrogen Phosphate 7-hydrate for analysis, ACS, 98.0-102.0%	✓														
	131678	di-Sodium Hydrogen Phosphate 12-hydrate for analysis, ISO, 99-102%		✓													
	141678	di-Sodium Hydrogen Phosphate 12-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 98.5-100.5%															

(1) Product in glass bottle with pouring ring, see page 4 - (2) See more information related to Fat content determination in Dairy products on page 15

Code	Product Name	Complies with				Package												
		ACS	ISO	Ph. Eur.	USP	25 g	50 g	100 g/ml	250 g/ml	500 g/ml	1 kg/L	2.5 kg/L	5 kg/L	8 L	10 kg/L	25 kg/l	200 L	
131687	Sodium Hydroxide pellets for analysis, ACS, ISO, 98.0%	✓	✓							Ⓟ	Ⓟ		Ⓟ			Ⓟ		
141687	Sodium Hydroxide pellets (USP-NF, BP, Ph. Eur.) pure, pharma grade, 98.0-100.5%									Ⓟ	Ⓟ		Ⓟ					
145881	Sodium Hydroxide micropearls (USP-NF) pure, pharma grade, 98.0-100.5%										Ⓟ		Ⓟ					
141929	Sodium Hydroxide pearls (USP-NF, BP, Ph. Eur.) pure, pharma grade, 98.0-100.5%										Ⓟ		Ⓟ					
142404	Sodium Hydroxide solution 50% w/w pure										Ⓟ		Ⓟ					
141571	Sodium Hydroxide solution 50% w/v pure												Ⓟ					
171220	Sodium Hydroxide solution 40% w/w for the determination of nitrogen										Ⓟ		Ⓟ		Ⓟ	Ⓟ	Ⓟ	
141220	Sodium Hydroxide solution 40% w/w pure												Ⓟ					
121593	Sodium Hydroxide solution 40% w/v for analysis for the N determination in milk according to ISO8968-3:2004												Ⓟ					
176682	Sodium Hydroxide solution 32% w/w for the determination of nitrogen											Ⓟ	Ⓟ		Ⓟ	Ⓟ		
126682	Sodium Hydroxide solution 32% w/w for analysis											Ⓟ			Ⓟ			
122666	Sodium Hydroxide solution 32% w/v for the determination of nitrogen										Ⓟ		Ⓟ					
171690	Sodium Hydroxide solution 30% w/v									Ⓟ			Ⓟ					
143402	Sodium Hydroxide solution 25% w/w pure														Ⓟ			
122338	Sodium Iodate for analysis, 99.0%							Ⓟ					Ⓟ					
131726	Sodium Iodide for analysis, ACS, 99.5%	✓							Ⓜ		Ⓜ		Ⓟ					
143307	Sodium Lactate solution 50% w/w (USP, BP, Ph. Eur.) pure, pharma grade										Ⓟ							
131701	Sodium Molybdate 2-hydrate (Reag. Ph. Eur.) for analysis, ACS, 99.5-103.0%	✓		✓					Ⓟ		Ⓟ							
141701	Sodium Molybdate 2-hydrate pure, 98.0-100.5%								Ⓟ		Ⓟ							
131702	Sodium Nitrate (Reag. Ph. Eur.) for analysis, ACS, ISO	✓	✓	✓						Ⓟ	Ⓟ		Ⓟ			Ⓟ		
131703	Sodium Nitrite (Reag. Ph. Eur.) for analysis, ACS, 98.0%	✓		✓	✓					Ⓟ	Ⓟ					Ⓟ		
131706	di-Sodium Oxalate (Reag. USP, Ph. Eur.) for analysis, ACS, 99.5%	✓		✓	✓					Ⓟ						Ⓟ		
131705	Sodium Pentacyanonitrosoferrate(III) 2-hydrate (Reag. Ph. Eur.) for analysis, ACS, 99.0-102.0%	✓		✓		Ⓟ		Ⓟ					Ⓟ					
145642	Sodium Perborate 4-hydrate (BP, Ph. Eur.) pure, pharma grade, 96.0-103.0%										Ⓟ							
134387	Sodium Perchlorate 1-hydrate (Reag. USP) for analysis, ACS, 98.0-102.0%	✓			✓				Ⓟ	Ⓟ	Ⓟ							
131700	Sodium meta-Periodate (Reag. Ph. Eur.) for analysis, ACS, 99.8-100.3%	✓		✓			Ⓟ	Ⓟ	Ⓟ									
131708	Sodium Peroxide granulated for analysis, ACS, 95.0%	✓							Ⓟ		Ⓟ		Ⓟ					
143396	Sodium Peroxodisulfate pure										Ⓟ		Ⓟ					
141681	tri-Sodium Phosphate 1-hydrate pure, 95%												Ⓟ					
131680	tri-Sodium Phosphate 12-hydrate (Reag. Ph. Eur.) for analysis, ACS, 98.0-102.0%	✓		✓							Ⓟ		Ⓟ			Ⓜ		
175506	Sodium Plumbite solution (Doctor solution) sulfide reagent										Ⓟ							
141684	Sodium Polyphosphate pure, 65-70% (as P2O5)										Ⓟ							
121710	tetra-Sodium Pyrophosphate 10-hydrate for analysis, 99.0%										Ⓟ					Ⓟ		
121859	Sodium Salicylate for analysis, 99.5%								Ⓟ		Ⓟ							
141859	Sodium Salicylate (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-101.0%								Ⓟ		Ⓟ		Ⓟ					
142756	Sodium Selenite anhydrous pure, 99%								Ⓟ		Ⓟ							
131716	Sodium Sulfate anhydrous (Reag. USP) for analysis, ACS, ISO, 99.0%	✓	✓		✓					Ⓟ	Ⓟ		Ⓟ			Ⓟ		
131715	Sodium Sulfate 10-hydrate (Reag. USP) for analysis, ACS	✓			✓						Ⓟ							
131717	Sodium Sulfite anhydrous for analysis, ACS, 98.0%	✓								Ⓟ	Ⓟ					Ⓟ		
191717	Sodium Sulfite anhydrous (BP, Ph. Eur.) pharma grade, 95.0-100.5%										Ⓟ					Ⓟ		
121719	Sodium Tartrate 2-hydrate (Reag. Ph. Eur.) for analysis, 99.0-101.0%			✓							Ⓟ		Ⓟ			Ⓟ		
121879	Sodium Thiosulfate anhydrous for analysis, 99.0%								Ⓟ		Ⓟ		Ⓟ					
131721	Sodium Thiosulfate 5-hydrate for analysis, ACS, 99.5-101.0%	✓								Ⓟ	Ⓟ					Ⓟ		
141721	Sodium Thiosulfate 5-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%									Ⓟ	Ⓟ		Ⓟ					
132440	Sodium tetra-Phenylborate (Reag. Ph. Eur.) for analysis, ACS, 99.5%	✓		✓		Ⓜ		Ⓜ			Ⓜ							
121096	Starch from Potato soluble (Reag. USP, Ph. Eur.) for analysis, indicator for iodometry			✓						Ⓟ	Ⓟ					Ⓟ		
141307	Strontium Chloride 6-hydrate pure									Ⓟ								
131883	Succinic Acid (Reag. USP, Ph. Eur.) for analysis, ACS	✓		✓	✓				Ⓟ		Ⓟ							
131621	D(+)-Sucrose for analysis, ACS	✓								Ⓟ	Ⓟ		Ⓟ			Ⓟ		
141621	D(+)-Sucrose (USP-NF, BP, Ph. Eur., JP) pure, pharma grade										Ⓟ		Ⓟ					
122823	Sulfanilamide (Reag. Ph. Eur.) for analysis, 99.0%			✓				Ⓟ	Ⓟ		Ⓟ							
142823	Sulfanilamide (Ph. Fr., DAB) pure, pharma grade, 99-101%									Ⓟ	Ⓟ							
131057	Sulfanilic Acid (Reag. Ph. Eur.) for analysis, ACS, 99.5-102.0%	✓		✓					Ⓟ		Ⓟ							
122838	5-Sulfosalicylic Acid 2-hydrate for analysis, 99.0-101.0%	✓		✓					Ⓟ		Ⓟ							
173163	Sulfuric Acid 98% for the determination of nitrogen										Ⓜ	Ⓜ	Ⓟ			Ⓟ	(1)	
471058	Sulfuric Acid 95-98% (max. 0.0000005% Hg) for analysis, ACS, ISO	✓	✓								Ⓜ	Ⓜ				Ⓟ	Ⓜ	
131058	Sulfuric Acid 96% for analysis, ISO		✓								Ⓜ	Ⓜ	Ⓟ			Ⓟ	(1)	
141058	Sulfuric Acid 95-98% (USP-NF, BP, Ph. Eur.) pure, pharma grade										Ⓜ	Ⓜ	Ⓟ				(1)	
A0655	Sulfuric Acid 95-97% for analysis										Ⓟ				Ⓟ			
171058	Sulfuric Acid 96% ± 0.15% Viscosimetry grade										Ⓟ							
121010	Sulfuric Acid 90-91% according to Gerber for analysis, for determination of fat in milk										Ⓜ	Ⓜ	Ⓟ			Ⓟ	(1)(2)	
123374	Sulfuric acid 75% for analysis											Ⓟ						
123863	Sulfuric Acid 72% for analysis											Ⓟ						
173253	Sulfuric Acid 62% (d=1.522) according to Van Gulik for analysis for determination of fat in cheese										Ⓜ		Ⓟ				(1)(2)	
142934	Sulfuric Acid 50% pure										Ⓟ							
127102	Sulfuric Acid 40% for analysis											Ⓟ						
122448	Sulfuric Acid 25% for analysis										Ⓟ	Ⓟ						
143323	Sulfuric Acid 20% pure											Ⓟ						
125882	Sulfuric Acid 10% for analysis												Ⓟ					
145882	Sulfuric Acid 10% pure											Ⓟ						



# Analytical and Pure Reagents T-Z

with guaranteed specifications

	Code	Product Name	Complies with				Package												
			ACS	ISO	Ph. Eur.	USP	5 g	50 g	90 g	100 g/ml	250 g/ml	500 g/ml	1 kg/L	2.5 kg/L	5 kg/L	10 kg/L	25 kg/l	30 L	60 L
T	141733	Talc washed (BP, Ph. Eur.) pure, pharma grade			✓								Ⓟ		Ⓟ				
	141065	Tannic Acid (USP, BP, Ph. Eur.) pure, pharma grade								Ⓟ							☐		
	131066	L(+)-Tartaric Acid for analysis, ACS, 99.0%	✓									Ⓟ	Ⓟ	Ⓟ					
	141066	L(+)-Tartaric Acid pure, 99.5%										Ⓟ							
	141455	Tetrachloroethylene pure, 99.5%										Ⓟ	Ⓟ	Ⓟ					
	147070	Tetrafluoroboric Acid solution 50% pure											Ⓟ						
	133537	Tetrahydrofuran stabilized with ~ 300 ppm of BHT for analysis, ACS, 99.5%	✓										Ⓟ	Ⓟ	Ⓟ			☐	
	143886	Thimerosal (USP, BP, Ph. Eur.) pure, pharma grade, 97.0-101.0%			✓					Ⓟ									
	134887	Thioacetamide (Reag. Ph. Eur.) for analysis, ACS, 99.0%	✓		✓			Ⓟ											
	124142	Thioglycolic Acid for analysis, 99%							Ⓟ										
	142041	Thioglycolic Acid 80% pure, 79-82%										Ⓟ	Ⓟ						
	141743	Thiourea pure, 98%										Ⓟ							
	191738	Thymol (Ph. Eur.) pharma grade								Ⓟ			Ⓟ						
	131739	Thymolphthalein for analysis, ACS pH indicator 9.3 colourless; 10.5 blue	✓				Ⓟ												
	471303	Tin(II) Chloride 2-hydrate (max. 0.000005% Hg) for analysis, ACS, 98.0-103.0%	✓								Ⓟ				Ⓟ				
	131303	Tin(II) Chloride 2-hydrate (Reag. Ph. Eur.) for analysis, ACS, 98.0-103.0%	✓		✓	✓				Ⓟ	Ⓟ		Ⓟ				☐		
	141303	Tin(II) Chloride 2-hydrate pure, 97%								Ⓟ	Ⓟ		Ⓟ		Ⓟ				
	142101	Titanium(IV) Oxide (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%			✓										☐				
	121744	o-Tolidine (Reag. USP, Ph. Eur.) for analysis, 98.0%, chlorine reagent			✓	✓		Ⓟ											
	172417	o-Tolidine solution 0.1%, chlorine reagent									Ⓟ		Ⓟ						
131745	Toluene (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.8%	✓	✓	✓								Ⓟ	Ⓟ	Ⓟ		☐			
124860	Toluene / 2-Propanol / Water 100:99:1 v/v/v (Mixture TAN) (ASTM D 664) for analysis												Ⓟ	Ⓟ		☐			
131067	Trichloroacetic Acid (Reag. Ph. Eur.) for analysis, ACS	✓		✓					Ⓟ	Ⓟ		Ⓟ		Ⓟ					
141067	Trichloroacetic Acid (BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%								Ⓟ	Ⓟ		Ⓟ		Ⓟ					
141749	Trichloroethylene, stabilized with ethanol pure, 99.5%											Ⓟ							
121750	Triethanolamine for analysis, 99.0%											Ⓟ							
141750	Triethanolamine (USP-NF) pure, pharma grade, 99.0-107.4%											Ⓟ		Ⓟ					
123542	Triethylamine (Reag. USP) for analysis, 99.5%				✓							Ⓟ							
147039	Triethyl Citrate (Ph. Eur., USP-NF) pure, pharma grade, 99.0-100.5%											Ⓟ							
131940	Tris for analysis, ACS, 99.8-100.1%	✓								Ⓟ		Ⓟ							
141940	Tris (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-100.5%									Ⓟ		Ⓟ		☐					
142314	Triton® X 100 pure, surfactant for automatical analysis											Ⓟ		Ⓟ					
142312	Tween® 20 (USP-NF, BP, Ph. Eur.) pure, pharma grade											Ⓟ		Ⓟ					
142050	Tween® 80 (USP-NF, BP, Ph. Eur.) pure, pharma grade											Ⓟ		Ⓟ					
U	131754	Urea crystalline for analysis, ACS, 99.0-100.5%	✓								Ⓟ	Ⓟ					☐		
	191754	Urea crystalline (USP, BP, Ph. Eur.) pharma grade, 99.5-100.5%										Ⓟ							
	146392	Urea pearls pure, 98.5%										Ⓟ							
V	173333	Vanadate-Molybdate Reagent for determination of phosphates										Ⓟ							
	142048	Vanillin (USP-NF, BP, Ph. Eur.) pure, pharma grade, 99.0-101.0%			✓				Ⓟ		Ⓟ								
W	141003	Vaseline Oil (USP, BP, Ph. Eur.) pure, pharma grade			✓					Ⓟ		Ⓟ		Ⓟ					
	131074	Water for analysis, ACS	✓									Ⓟ	Ⓟ	Ⓟ	☐	Ⓟ		Ⓟ	
X	174748	Wide Spectrum Microtablets I for preserving milk samples. Tablets of 18 mg						Ⓟ											
	175387	Wide Spectrum Microtablets II for preserving milk samples. Tablets of 18 mg						Ⓟ											
	131769	Xylene - Mixture of isomers (Reag. Ph. Eur.) for analysis, ACS, ISO, 99.0%	✓	✓	✓								Ⓟ☐	Ⓟ	Ⓟ		☐		
Y	141769	Xylene - Mixture of isomers pure, 98%										☐	Ⓟ	Ⓟ					
	132617	Xylenol Orange Tetrasodium Salt for analysis, ACS for complexometry	✓				Ⓟ												
	142080	D(+)-Xylose (BP, Ph. Eur.) pure, pharma grade			✓				Ⓟ										
	125415	Yellow Primary Solution (BP, Ph. Eur.) for analysis for determination of the coloration grade in liquids							Ⓟ										
Z	141783	Zinc metal, powder pure									Ⓟ						☐		
	131775	Zinc Acetate 2-hydrate (Reag. USP, Ph. Eur.) for analysis, ACS	✓		✓	✓					Ⓟ	Ⓟ	Ⓟ				☐		
	131779	Zinc Chloride for analysis, ACS, 97.0%	✓								Ⓟ	Ⓟ	Ⓟ						
	141779	Zinc Chloride pure, 97%										Ⓟ		Ⓟ					
	191779	Zinc Chloride (Ph. Eur., USP) pharma grade, 97.0-100.5%										Ⓟ							
	131786	Zinc Oxide for analysis, ACS, 99.0%	✓									Ⓟ							
	141788	Zinc Sulfate 1-hydrate (USP, Ph. Eur., BP) pure, pharma grade, 99.0-100.5%										Ⓟ							
	141787	Zinc Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade, 99.0-104.0%									Ⓟ	Ⓟ							
	131787	Zinc Sulfate 7-hydrate for analysis, ACS, 99.5-103.0%	✓									Ⓟ	Ⓟ						

(1) Product in glass bottle with pouring ring, see page 4

## Fat content determination in Dairy products

During their handling and processing, milk and dairy products are subjected to **stringent analytical controls** to guarantee their composition and quality. Commission Regulation (EC) No 273/2008, Commission Regulation (EC) No 273/2008 lays down, lays down parameters to determine the reference limits and methods for the chemical, physical and microbiological analysis, and for the organoleptic evaluation of milk and dairy products.

Fat content is one of the most important parameters because:

- This parameter impacts on the price paid per liter of milk.
- It is used to determine if a sample of milk or cheese complies with established legal values.
- It is necessary to know its value to classify the milk for the preparation of derivatives.



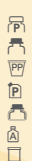
There are two typical methods for determining the content of fat in milk and cheese:

**Mojonnier method:** gravimetric method that uses organic solvents to extract fat. Subsequently the solvent is evaporated and the fat is determined by weighing the dry fatty extract.

**Gerber method:** volumetric method that uses chemical reagents (sulfuric acid, detergents) to achieve the breaking of the emulsion and the fat separation. Then the fat content is measured in special flask (**butyrometer**).

Product Name	Code	Milk		Cheese	
		Gravimetric method (ISO 1211)	Butyrometer method (Gerber method) (ISO 2446)	Gravimetric method (ISO 1735)	Butyrometer method (Van Gulik method) (ISO 3433)
Ammonia 25% (as NH <sub>3</sub> ) (Reag. USP, Ph. Eur.) for analysis	121129	✓			
Amyl Alcohol according to NF V 04-210 for analysis	125715				✓
Congo Red (C.I. 22120) for analysis	121611	✓			
Diethyl Ether stabilized with ~6 ppm of BHT (Reag. Ph. Eur.) for analysis, ACS, ISO	132770	✓		✓	
Ethanol 96% v/v for analysis, ACS	131085	✓		✓	
Hydrochloric Acid 25% for analysis, ISO	133378			✓	
Isoamyl Alcohol according to Gerber for analysis	121079		✓		
Petroleum Ether 40–60°C for analysis, ACS, ISO	131315	✓		✓	
Sulfuric Acid 90–91% according to Gerber for analysis	121010		✓		
Sulfuric Acid 62% (d=1,522) according to Van Gulik for analysis	173253				✓

### Packaging symbols:



Polyethylene bottle  
Glass bottle  
Polypropylene bucket with handle  
Polyethylene canister  
Glass bottle coated with plastic  
Aluminium bottle  
Carton drum with inner polyethylene bag



Steel-plated drum  
Aluminium bottle with outer packaging  
Glass bottle with outer packaging  
Tin-plated can  
Drum with polyethylene lining inside and metal outside  
Sol-Pack: Polyethylene container in a carton box (cubitainer), with tap



Glass tube with screw top  
Co-extrusion jerrycan (multilayer)  
Co-extrusion bottle (multilayer)  
Stainless steel drum (returnable)  
Fluorinated polyethylene canister



A177,EN;201707

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