

# PANNA NATURAL MINERAL WATER

## PET BOTTLES

**SHELF LIFE: 12 Months (Italy)**

**18 Months (Generic Export)**

**364 Days (X1-XA)**

### Descriptions:

Natural Mineral Water in accordance with European Directives 2009/54/CE and 2003/40/EC

Acknowledgments: Italian Ministry of Health Decrees Nr. 3106-065 on 28/12/98 -Country of Origin: Italy

### Ingredients:

Panna Natural Mineral Water

### Preservation and Storage:

Store in a clean, cool, dry and odorless place, away from direct sunlight

### Organoleptic Specifications:

Limpid, Odourless, Colourless

### Chemical Specifications

Parameter	UM	Value	Methods
Water temperature	°C	10.4	UNI 10500:1996
pH		8.0	2060 APAT IRSA-CNR
Specific conductance at 20°C	µS/cm	216	2030 APAT IRSA-CNR
Total hardness	°f	10.6	2040 APAT IRSA-CNR
Total mineralisation	mg/L	189	
Total dissolved solids at 180°C	mg/L	139	UNI 10506:1996
Oxidability with permanganate (Kubel)	mg/L	0.2	UNI EN ISO 8467:1997
Free carbon dioxide	mg/L	3.7	UNI 10507:1996
Silica	mg/L	7.0	4130 APAT IRSA-CNR
Hydrogencarbonate	mg/L	103	S.M. 2320B (a)
Chloride	mg/L	8.5	S.M. 4110B (a)
Sulphate	mg/L	22.0	S.M. 4110B (a)
Sodium	mg/L	6.4	S.M. 3500-Na B (a)
Potassium	mg/L	0.8	S.M. 3500-K B (a)
Calcium	mg/L	32.0	S.M. 3120 B, 3500-Ca B (a)
Magnesium	mg/L	6.2	S.M. 3120 B, 3500-Mg B (a)
Iron (dissolved)	mg/L	< 0.02	UNI EN ISO 11885:2000
Ammonium	mg/L	< 0.05	4030A2 APAT IRSA-CNR
Phosphorous (total)	mg/L	< 0.05	4110 APAT IRSA-CNR
Sulfide (total)	mg/L	< 0.01	4160 APAT IRSA-CNR; S.M. 4500S2-D (a)
Strontium	mg/L	0.318	UNI EN ISO 11885:2000; ISO 17294-2
Lithium	mg/L	< 0.010	ISO 17294-2
Aluminium	mg/L	< 0.010	ISO 17294-2
Bromide	mg/L	< 0.1	S.M. 4110B (a)
Iodide	mg/L	< 0.005	ISO 17294-2
Silver	mg/L	< 0.001	ISO 17294-2
Zinc	mg/L	0,002	ISO 17294-2
Antimonyum	mg/L	< 0.00125	ISO 17294-2 (b)
Arsenic	mg/L	< 0.001	ISO 17294-2 (b); UNI EN ISO 11969 (b)
Barium	mg/L	< 0.1	ISO 17294-2 (b)
Boron	mg/L	< 0.1	ISO 17294-2 (b)
Cadmium	mg/L	< 0.0003	ISO 17294-2 (b)
Chromium	mg/L	< 0.005	ISO 17294-2 (b)
Copper	mg/L	< 0.1	ISO 17294-2 (b)
Cyanide (total)	mg/L	< 0.001	S.M. 4500-CN-E (a)(b)
Fluoride	mg/L	< 0.1	4100B APAT IRSA-CNR (b)

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Parameter	UM	Value	Methods
Lead	mg/L	< 0.001	ISO 17294-2 (b)
Manganese	mg/L	< 0.01	ISO 17294-2 (b)
Mercury	mg/L	< 0.0002	UNI EN 1483:1999 (b)
Nickel	mg/L	< 0.002	ISO 17294-2 (b)
Nitrate	mg/L	2.9	S.M. 4110 B (a)(b)
Nitrite	mg/L	< 0.002	4050 APAT IRSA-CNR (b)
Selenium	mg/L	< 0.001	UNI 10557:1996 (b)
Anionic surfactants (as LAS)	µg/L	< 50	S.M. 5540 C (a) (c)
Oil, grease, dissolved hydrocarbons, emulsion	µg/L	< 10	5160 APAT IRSA-CNR (c)
Benzene	µg/L	< 0.5	S.M. 6200 B (a)(c)
Benzo(a)pyrene	µg/L	< 0.003	ISO 17993 (c)
Benzo(b)fluoranthene	µg/L	< 0.006	ISO 17993 (c)
Benzo(k)fluoranthene	µg/L	< 0.006	ISO 17993 (c)
Benzo(ghi)perylene	µg/L	< 0.006	ISO 17993 (c)
Dibenzo(a,h)anthracene	µg/L	< 0.006	ISO 17993 (c)
Indeno(1,2,3-cd)pyrene	µg/L	< 0.006	ISO 17993 (c)
Others polynuclear aromatic hydrocarbons	µg/L	< 0.006	ISO 17993 (c)
Pesticides (Insecticides, herbicides, fungicides, nematocides, acaricides, algicides, rodenticides, metabolites and by-products), individual compound	µg/L	< 0.05	UNI EN ISO 6468:1999 (c) EPA 551.1 (c)
Aldrin, Dieldrin, Eptachlor, Eptachlor epoxide (individual compound)	µg/L	< 0.01	UNI EN ISO 6468:1999 (c)
Polychlorinated biphenyls (individual congener)	µg/L	< 0.05	UNI EN ISO 6468:1999 (c)
Chloroform	µg/L	< 0.5	S.M. 6200 B (a) (c)
Chlorodibromomethane	µg/L	< 0.5	S.M. 6200 B (a) (c)
Dichlorobromomethane	µg/L	< 0.5	S.M. 6200 B (a) (c)
Bromoform	µg/L	< 0.5	S.M. 6200 B (a) (c)
Trichloroethylene	µg/L	< 0.1	S.M. 6200 B (a) (c)
Tetrachloroethylene	µg/L	< 0.1	S.M. 6200 B (a) (c)
1,2-dichloroethane	µg/L	< 0.1	S.M. 6200 B (a) (c)
Halogenated compounds not included in pesticides and polychlorinated biphenyls lists (individual compound)	µg/L	< 0.1	S.M. 6200 B (a) (c)
(a) Reference: "Standard Methods for the Examination of Water and Wastewater" - APHA Editor, 22nd Edition.			
(b) Performance characteristics for the analysis of the constituents in Annex I-Decreto del Ministero della Salute 29/12/2003			
(c) Methods detection limits as in Annex II-Decreto del Ministero della Salute 29/12/2003			
Analysis carried out by the University of Pavia - General Chemistry Dept. on July 15, 2013			

## Microbiological Specifications

Parameter	UM	Value	Methods
Standard Plate Count at 22°C (at Bottling)	cfu/ml	less than 100	
Standard Plate Count at 37°C (at Bottling)	cfu/ml	less than 20	
Total Coliforms	cfu/250 ml	Absence	
Faecal Coliform	cfu/250 ml	Absence	
Pseudomonas aeruginosa	cfu/250 ml	Absence	
Faecal Streptococci	cfu/250 ml	Absence	
Staphylococcus aureus	cfu/250 ml	Absence	
Sulfite Reduction Clostridia Spores	cfu/50 ml	Absence	

## Nutritional Information

Parameter	UM	Value
Energy Giving	Kcal/100 ml - KJ/100 ml	0

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### Packaging Spacification

Pack	Type	Decription
Piece	Bottle	- 500 ml - 750 ml - 1000 ml - 1500 ml
Primary Pack	Filmpack	- 500 ml size: 6 Bottles in Filmpack
Secondary Pack	Filmpack	- 500 ml size: 24 Bottles in Filmpack (4 x FilmPack of 6 Bottles) - 500 ml size: 24 Bottles in Filmpacked Tray - 750 ml size: 6 Bottles in Filmpack - 750 ml size: 12 Bottles in Filmpack - 1000 ml size: 6 Bottles in Filmpack - 1500 ml size: 6 Bottles in Filmpack
	Cardboard Box	- 750 ml size: 12 Bottles in Card. Box - 1000 ml size: 12 Bottles in Card. Box

### Manufacturing Conditions:

In the bottling factory HACCP system and a GMP program has been studied and realized in accordance with European Directive 93/43/CEE.  
The bottling Factory is NSF and FSSC 22000 certified  
The product is O.U. Kosher Passover Certified  
The bottling Factory has a documented Cleaning & Sanitation Program.  
The bottling Factory has a documented Pest Control Program.  
The product does not contain any Genetically Modified Ingredient.  
The bottling plant can assure the product traceability by means of the lot code printed on the label.

*Panna 25/01/2016*

*Acqua Panna Factory Manager*