

TABELLA DI RESISTENZA A SOSTANZE CHIMICHE

Per tutte le applicazioni che esulano da quelle pneumatiche standard, in cui i tubi termoplastici vanno a contatto con agenti chimici, è importante sapere come questi ultimi possano influire sulle performance del tubo. Le informazioni contenute in questa tabella sono offerte in buona fede e ritenute accurate al momento del loro inserimento. Si tratta del risultato di test condotti dai vari fornitori di materia prima secondo le direttive standard e non costituiscono garanzia alcuna, espressa o implicita, da parte nostra. Per applicazioni senza pressione o a caduta libera, in cui il tubo non è soggetto a pressione interna continua o a stress termico, possono risultare utili i dati dei test per immersione qui di seguito riportati. È importante sottolineare come la resistenza chimica di un prodotto termoplastico venga influenzata da molteplici fattori:

- La composizione chimica del materiale: la resistenza chimica di una tubazione in plastica è in relazione alla resistenza del materiale termoplastico nella sua composizione finale (considerando l'aggiunta di eventuali additivi o ingredienti);
- La concentrazione dell'agente chimico: in generale, la resistenza di un particolare materiale termoplastico a una specifica sostanza chimica diminuisce all'aumentare della concentrazione di quest'ultima;
- Temperatura: in generale, la resistenza diminuisce quando la temperatura aumenta. Per questa ragione in tabella viene riportata la temperatura massima di lavoro laddove è inferiore a quella standard di utilizzo per aria compressa;
- Stress: in generale, lo stress meccanico applicato (come pressione interna, abrasione o impatti) diminuisce la resistenza chimica e aumenta la possibilità di rotture. In alcuni casi perfino se il tasso di aggressione chimica da parte dell'agente è basso ma l'applicazione richiede pressione, i semplici dati ricavati da test per immersione possono non caratterizzare adeguatamente le performance del prodotto.
- Miscele: il fatto che il prodotto termoplastico resista all'aggressione di ogni sostanza chimica di una miscela presa singolarmente, non significa che sicuramente possa resistere alla miscela stessa. Quando il possibile effetto di una combinazione di agenti chimici è sconosciuto, il materiale deve essere testato sotto l'effetto di tale mix.

Riassumendo, gli agenti chimici che non influenzano le proprietà di un prodotto termoplastico non sotto stress, potrebbero causare un comportamento diverso quando sottoposti a stress meccanico e/o termico o quando vengono combinati in una miscela. Questa tabella intende essere una guida utile a ingegneri e utenti finali per studiare la soluzione migliore per i loro progetti, scegliendo tra il nostro range di prodotti quello più congeniale al contatto con una sostanza chimica specifica, e non comporta alcuna garanzia da parte nostra.

ABBREVIAZIONI E SIMBOLI UTILIZZATI:

- R: Resiste
 nr: Non Resiste
 L: Resistenza limitata (possibile azione gonfiante/cristallizzante)
 T(°C)/L: Resistenza limitata / temperatura di lavoro massima di T(°C)
 T(°C): Sostanza chimica testata fino alla temperatura di T(°C)
 -: Sostanza non testata
 O: Resiste (con prodotti in PTFE/FEP/PFA dove non è stato possibile testare l'effetto degli agenti chimici all'interno dell'ampio range di temperature di lavoro possibili, è stata riportata solamente una generale compatibilità chimica alla sostanza, senza riportarne la temperatura massima di utilizzo dove diversa da quella standard)
 a: In presenza di agenti chimici è suggerito l'impiego di questo prodotto con raccordi che lavorino sia sul diametro esterno che interno. È sconsigliato l'utilizzo di raccordi rapidi automatici. Possono inoltre verificarsi nel tempo fenomeni di rigonfiamento dovuti alla permeabilità degli strati protettivi in poliammide.
 b: Idrolisi: l'utilizzo prolungato negli anni di PA con acqua a temperature massime uguali o superiori a 65°C in continuo fa dell'idrolisi il più importante meccanismo di degradazione. Un fattore aggravante e che accelera questo processo è la presenza di acidi.

TABLE OF CHEMICAL SUBSTANCES RESISTANCE

For all those "nonstandard" pneumatic applications, where thermoplastic pipes come into contact with chemical agents, it is important to know how the pipe may be affected. The information in this chart is offered in good faith and believed to be accurate at the time of its preparation. This is the result of tests carried out by the raw material supplier according to standard methods so that the chart is offered without any warranty, expressed or implied, from our side. For gravity flow or non-pressure applications, where the pipe is not subject to continuous internal pressure or thermal stress, chemical immersion test data that are provided in this chart may provide suitable information. It's important to take into consideration that there are multiple conditions that may affect the chemical resistance of each product:

- The chemical composition of the material: the chemical resistance of plastic hosing is related to the chemical resistance of the thermoplastic material in addition to additives and other ingredients in the final compound.
- The concentration of the chemical agent: generally, the resistance of a particular plastic to a specific chemical decreases with an increase in concentration of the chemical.
- Temperature: generally, the resistance decreases when temperature increases and this is why in the chart is indicated the maximum working temperature with the specific chemical where it differs from the standard for compressed air;
- Stress: generally, the applied mechanical stress (such as constant internal pressure, abrasion or impacts) decreases the chemical resistance and increases the fail possibilities. In some cases even if a low rate of chemical attack is involved, if the application is pressurized, simple immersion data, like that represented in the following resistance tables, may not adequately characterize performance throughout the intended design life.
- Mixtures: the fact that the thermoplastic product is resistant to each one of the chemical agents of a mixture taken singularly, doesn't mean that it's resistant to their combination. When the possible combined effect of several chemicals is unknown, the material should be tested in the complete chemical mixture in question.

Therefore, chemicals that do normally not affect properties of an unstressed thermoplastic may cause completely different behavior when under thermal or mechanical stress or when combined to other chemicals. This table is meant to be only a guide to help engineers and final users to study the best solution to their projects choosing among our range of products the most suitable to be in contact to a specific chemical, and it do not establish a warranty of any kind from our side.

ABBREVIATION AND SYMBOLS USED:

- R: Resistant
 nr: Not Resistant
 L: Limited resistance (possible inflating / crystallizing action)
 T(°C)/L: Limited resistance / maximum working temperature of T(°C)
 T(°C): Chemical agent tested up to temperature T(°C)
 -: Chemical not tested
 O: Resistant (on PTFE/FEP/PFA products where it's not been possible to test all chemicals in the product's wide working temperatures range, it has been given only a general resistance to the chemical without specifying the maximum working temperature when under the effect of the aggressive agent)
 a: In presence of chemicals for this product it's recommended the usage of fittings that work on both internal and external diameter. The usage of automatic push in fittings is not suggested. In addition to this, over time swelling phenomena may occur due to the permeability of polyamides protective layers.
 b: Hydrolysis: only the use of PA continuously over many years with water at a maximum temperature of 65°C or higher makes hydrolysis a prevailing degradation mechanism. An aggravating factor for the hydrolysis process is the presence of acids.

| SUBSTANCE | FORMULA | CONCENTRATION | SOSTANZA | PA11 - PA12 PA12 EHF _a - PA MB-Tec™ | KYNAR® HD4000 | KYNAR® FLEX 2800 | PTFE - PFA FEP | L.D. PE | H.D. PE | PU ester | PU ether |
|-----------------------------|--|---------------------------|---------------------------|--|------------------|---------------------|-------------------|---------|---------|----------|----------|
| 0-phenilphenol | | - | 0-fenilfenolo | nr | 80 | 80 | - | - | - | - | - |
| A | | | | | | | | | | | |
| Acetaldehyde | C ₂ H ₄ O | 40 % in water | Acetaldeide | 40/L | nr | nr | 0 | 20/L | L | - | - |
| Acetamide | C ₂ H ₅ NO | - | Acetamide | - | nr | 25 | 0 | 20 | R | - | - |
| Acetanilide | C ₈ H ₉ NO | - | Acetanilide | - | - | - | - | R | R | - | - |
| Acetic Acid | C ₂ H ₄ O ₂ | 80% in water | Acetico acido | nr | 65 | 50 | 0 | 20/L | L | - | - |
| Acetic Acid | C ₂ H ₄ O ₂ | 3% in water | Acetico acido | 40/L _b | R | R | 0 | R | R | nr | L |
| Acetic Acid | C ₂ H ₄ O ₂ | 10% in water | Acetico acido | 20/L _b | R | R | 0 | R | R | - | - |
| Acetic Anhydride | C ₄ H ₆ O ₃ | - | Acetica anidride | 20/L _b | nr | nr | 0 | 20/L | L | - | - |
| Acetone | C ₃ H ₆ O | 10% in water | Acetone | - | 50 | 40 | 0 | L | L | - | - |
| Acetone | C ₃ H ₆ O | - | Acetone | 60/L | nr | nr | 0 | 20/L | L | - | - |
| Acetonitrile | C ₂ H ₃ N | - | Acetonitrile | - | 50 | nr | 0 | - | - | - | - |
| Acetophenone | C ₈ H ₈ O | - | Acetofenone | - | nr | nr | 0 | 20/L | 20 | - | - |
| Acetyl Bromide | C ₂ H ₃ BrO | - | Acetile bromuro | - | 50 | 50 | - | - | - | - | - |
| Acetyl Chloride | C ₂ H ₃ ClO | - | Acetile cloruro | - | 50 | 50 | - | - | - | - | - |
| Acetylacetone | C ₅ H ₈ O ₂ | - | Acetilacetone | - | nr | nr | - | - | - | - | - |
| Acetylene | C ₂ H ₂ | - | Acetilene | R | R | 65 | 0 | - | 20 | - | - |
| Acetylsalicylic acid | C ₉ H ₈ O ₄ | - | Acido acetilsalicilico | - | - | - | - | R | R | - | - |
| Acrylonitrile | C ₃ H ₃ N | - | Acrlonitrile | - | 25 | 25 | 0 | L | R | - | - |
| Adipic Acid | C ₆ H ₁₀ O ₄ | Sat. Solution | Acidi grassi | R | 65 | 65 | 0 | R | R | - | - |
| After Shave | - | - | After Shave | - | - | - | 0 | nr | nr | - | - |
| Air | - | - | Aria | R | R | R | R | R | R | R | R |
| Alcoholic Spirits | - | 40% Ethyl Alcohol | Alcolici | - | 95 | R | 0 | - | - | - | - |
| Aliphatic hydrocarbons | - | - | Idrocarburi alifatici | - | - | - | nr | 20/L | L | - | - |
| Allyl Alcohol | C ₃ H ₆ O | - | Allilico alcool | - | 50 | 50 | 0 | 20/L | R | - | - |
| Allyl Chloride | C ₃ H ₅ Cl | - | Allile cloruro | - | R | R | - | 20/L | 20/L | - | - |
| Alum | - | Aqueous solution | Allume | R | R | R | - | R | R | - | - |
| Aluminum Acetate | C ₆ H ₉ AlO ₆ | Aqueous solution or solid | Alluminio acetato | - | R | R | - | - | - | - | - |
| Aluminum Bromide | AlBr ₃ | - | Alluminio bromuro | - | R | R | - | - | - | - | - |
| Aluminum Chloride | AlCl ₃ | up to 40% in water | Alluminio cloruro | 20 | R | R | 0 | R | R | - | - |
| Aluminum Fluoride | AlF ₃ | Aqueous solution or solid | Alluminio fluoruro | 20 | R | R | - | R | R | - | - |
| Aluminum Hydroxide | Al(OH) ₃ | - | Alluminio idrossido | 20 | R | R | 0 | R | R | - | - |
| Aluminum Nitrate | Al(NO ₃) ₃ | Aqueous solution or solid | Alluminio nitrato | - | R | R | - | R | R | - | - |
| Aluminum Oxychloride | - | - | Alluminio ossicloruro | - | R | R | - | R | R | - | - |
| Aluminum Sulfate | Al ₂ (SO ₄) ₃ | Aqueous solution or solid | Alluminio solfato | R | R | R | 0 | R | R | - | - |
| Aminobenzoic acid | - | - | Acido aminobenzoico | - | - | - | - | R | R | - | - |
| Ammonia, dry gas | NH ₃ | - | Ammoniaca gas | L | nr | nr | 0 | R | R | - | - |
| Ammonia, liquid | NH ₃ | - | Ammoniaca liquida | R | nr | nr | 0 | L | R | - | - |
| Ammonium Acetate | CH ₃ COONH ₄ | Aqueous solution or solid | Ammonio Acetato | 50 | 80 | 65 | 0 | R | R | - | - |
| Ammonium Alum | (NH ₄)Al(SO ₄) ₂ | Aqueous solution or solid | Allume di ammonio | - | R | R | - | - | - | - | - |
| Ammonium Bifluoride | NH ₄ HF ₂ | Aqueous solution or solid | Ammonio bifluoride | - | 65 | 65 | - | - | - | - | - |
| Ammonium Bromide | NH ₄ Br | Aqueous solution or solid | Ammonio bromuro | - | R | R | 0 | - | - | - | - |
| Ammonium Carbonate | (NH ₄) ₂ CO ₃ | Aqueous solution or solid | Ammonio carbonato | 60 | R | R | 0 | R | R | - | - |
| Ammonium Chloride | (NH ₄)Cl | 3% in water | Ammonio cloruro | R | R | R | 0 | R | R | L | L |
| Ammonium Chloride | (NH ₄)Cl | Aqueous solution or solid | Ammonio cloruro | R | R | R | 0 | R | R | - | - |
| Ammonium Dichromate | (NH ₄) ₂ Cr ₂ O ₇ | Aqueous solution or solid | Ammonio bicromato | - | R | R | - | - | - | - | - |
| Ammonium Fluoride | (NH ₄)F | Aqueous solution or solid | Ammonio fluoruro | - | 65 | 75 | 0 | R | R | - | - |
| Ammonium Hexafluorosilicate | H ₆ F ₆ N ₂ Si | Sat. Solution | Ammonio esafluorosilicato | - | - | - | - | R | R | - | - |
| Ammonium Hydroxide | NH ₄ OH | Up to 30% | Ammonio idrossido | R | R | R | 0 | R | R | - | - |
| Ammonium Metaphosphate | - | Aqueous solution or solid | Ammonio metafosfato | - | R | R | - | R | R | - | - |
| Ammonium Nitrate | (NH ₄)NO ₃ | Aqueous solution or solid | Ammonio nitrato | R | R | R | 0 | R | R | - | - |
| Ammonium Oxalate | C ₂ H ₈ N ₂ O ₄ | - | Ammonio ossalato | - | - | - | - | R | R | - | - |
| Ammonium Persulfate | (NH ₄) ₂ S ₂ O ₈ | Aqueous solution or solid | Ammonio persolfato | nr | 25 | 25 | 0 | R | R | - | - |
| Ammonium Phosphate | (NH ₄) ₃ PO ₄ | Aqueous solution or solid | Ammonio fosfato | 60 | R | R | 0 | R | R | - | - |
| Ammonium Sulfate | (NH ₄) ₂ SO ₄ | Aqueous solution or solid | Ammonio solfato | 60/L | R | R | 0 | R | R | - | - |
| Ammonium Sulfide | (NH ₄) ₂ S | Aqueous solution or solid | Ammonio solfuro | 20 | 50 | 50 | 0 | R | R | - | - |
| Ammonium Thiocyanate | NH ₄ SCN | Aqueous solution or solid | Ammonio tiocianato | - | R | R | - | R | R | - | - |
| Amyl Acetate | C ₇ H ₁₄ O ₂ | - | Amile acetato | 80/L | 50 | 40 | 0 | nr | L | - | - |
| Amyl Alcohol | C ₅ H ₁₂ O | - | Amilico alcool | 60/L | R | R | 0 | L | L | - | - |
| Amyl Chloride | C ₅ H ₁₁ Cl | - | Amile cloruro | 40/L | R | R | 0 | nr | 20/L | - | - |
| Amyl phthalate | - | - | Amile ftalato | - | - | - | - | L | L | - | - |
| Amylic grease | - | - | Grasso amilico | R | - | - | - | - | - | - | - |
| Aniline | C ₆ H ₇ N | - | Anilina | 20/L | 40 | 40 | 0 | nr | L | - | - |
| Aniline Hydrochloride | C ₆ H ₉ ClN | Aqueous solution or solid | Anilina cloridrato | nr | 25 | 25 | - | 20/L | - | - | - |
| Antimony pentachloride | SbCl ₅ | Solid | Antimonio pentacloruro | nr | - | - | - | R | R | - | - |
| Aqua Regia | HNO ₃ +3HCl | - | Acqua regia | nr | 25 | 25 | 0 | nr | nr | - | - |
| Aromatic Hydrocarbons | - | - | Idrocarburi aromatici | - | - | - | - | nr | nr | - | - |
| Arsenic Acid | H ₃ AsO ₄ | Aqueous solution | Arsenico acido | - | R | R | 0 | R | R | - | - |
| Asphalt | - | - | Asfalto | L | R | R | - | L | L | - | - |

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|-------------------------|---|---------------------------|--------------------------|--|------------------|---------------------|-------------------|---------|---------|----------|----------|
| B | | | | | | | | | | | |
| Barium Bromide | BaBr ₂ | - | Bario di bromuro | - | - | - | - | R | R | - | - |
| Barium Carbonate | BaCO ₃ | - | Bario Carbonato | 20 | R | R | - | R | R | - | - |
| Barium Chloride | BaCl ₂ | Aqueous solution or solid | Bario Cloruro | R | R | R | - | R | R | - | - |
| Barium Hydroxide | Ba(OH) ₂ | - | Bario idrossido | 20 | R | R | - | R | R | - | - |
| Barium Nitrate | Ba(NO ₃) ₂ | Aqueous solution or solid | Bario nitrato | - | R | R | - | - | - | - | - |
| Barium Sulfate | BaSO ₄ | - | Bario solfato | 20 | R | R | - | R | R | - | - |
| Barium Sulfide | BaS | - | Bario solfuro | 20 | R | R | - | R | R | - | - |
| Battery Acid | H ₂ SO ₄ | - | Acido di batteria | - | - | - | - | R | R | nr | L |
| Beer | - | - | Birra | L | R | 90 | 0 | R | R | - | - |
| Beet Sugar Liquors | - | - | Barbabetola da zucchero | - | R | 90 | 0 | - | - | - | - |
| Benzaldehyde | C ₇ H ₆ O | - | Benzaldeide | 40/L | 20 | nr | 0 | 20/L | L | - | - |
| Benzene | C ₆ H ₆ | - | Benzene | 60/L | 75 | 75 | 0 | nr | L | - | - |
| Benzenesulfonic Acid | C ₆ H ₆ O ₃ S | Aqueous solution or solid | Benzenosolfonico acido | - | 50 | 50 | 0 | R | R | - | - |
| Benzoic Acid | C ₇ H ₆ O ₂ | - | Benzoico acido | 20/L | R | R | - | R | R | - | - |
| Benzoyl Chloride | C ₇ H ₅ ClO | - | Benzoile cloruro | - | 75 | 75 | - | L | L | - | - |
| Benzoyl Peroxide | C ₁₄ H ₁₀ O ₄ | - | Benzoile perossido | - | 75 | 75 | - | - | - | - | - |
| Benzyl Alcohol | C ₇ H ₈ O | - | Benzilico alcool | 20/L | R | R | 0 | L | R | - | - |
| Benzyl Chloride | C ₇ H ₇ Cl | - | Benzile cloruro | 20 | R | R | 0 | nr | 20/L | - | - |
| Benzyl Ether | - | - | Benzilico etere | - | 40 | 25 | - | - | - | - | - |
| Benzylamine | C ₇ H ₉ N | Aqueous solution or solid | Benzilamina | - | 25 | nr | - | - | - | - | - |
| Bismuthyl carbonate | Bi ₂ O ₂ (CO ₃) | Sat. Solution | Carbonato di bismuto | - | - | - | - | R | R | - | - |
| Bitumen | - | - | Bitume | - | - | - | - | L | R | - | - |
| Black Liquor | - | - | Liscivio | - | 80 | 80 | - | - | - | - | - |
| Bleach | NaClO | - | Candeggina | - | - | - | - | - | - | - | - |
| Borax | Na ₂ B ₄ O ₇ ·10H ₂ O | - | Borace | R | R | R | 0 | R | R | - | - |
| Boric Acid | H ₃ BO ₃ | 3% in water | Borico acido | L | R | R | 0 | R | R | 20/L | L |
| Boric Acid | H ₃ BO ₃ | - | Borico acido | L | R | R | 0 | R | R | - | - |
| Boron Trifluoride | BF ₃ | - | Boro trifluoruro | - | 25 | 25 | - | 20/L | 20/L | - | - |
| Brake Fluid | - | - | Liquido Freni | - | - | - | - | 20/L | 20/L | nr | nr |
| Brine | - | - | Salamoia | 20 | R | R | 0 | R | R | - | - |
| Brine, acid | - | - | Salamoia acida | - | R | R | - | - | - | - | - |
| Brine, chlorinated Acid | - | - | Salamoia acida clorurata | - | 95 | R | - | - | - | - | - |
| Bromic Acid | HBrO ₃ | Aqueous solution | Bromico acido | - | 95 | R | - | nr | nr | - | - |
| Bromine Gas (dry) | Br ₂ | - | Bromo gas secco | nr | 65 | 50 | 0 | nr | nr | - | - |
| Bromine Water | - | - | Acqua di Bromo | L | R | R | 0 | nr | nr | - | - |
| Bromine, liquid | Br ₂ | - | Bromo liquido | nr | 65 | 50 | - | nr | nr | - | - |
| Bromobenzene | C ₆ H ₅ Br | - | BromoBenzene | - | 65 | 65 | 0 | - | - | - | - |
| Bromoform | CHBr ₃ | - | Bromoformio | - | 65 | 65 | 0 | nr | nr | - | - |
| Bromotoluene | C ₇ H ₇ Br | - | Bromotoluene | - | 80 | 65 | - | - | - | - | - |
| Butadiene | C ₄ H ₆ | - | Butadiene | 20/L | R | R | 0 | - | - | - | - |
| Butane, Gas | C ₄ H ₁₀ | - | Butano | R | R | R | 0 | - | R | - | - |
| Butanediol | C ₄ H ₁₀ O ₂ | Aqueous solution or solid | Butandiolo | 20 | R | R | 0 | R | R | - | - |
| Butanol | C ₄ H ₁₀ O | - | Butanolo | 40/L | - | - | - | L | R | - | - |
| Butanone | C ₄ H ₈ O | - | Butanone | 60/L | - | - | - | 20 | L | - | - |
| Butyl Acetate | C ₆ H ₁₂ O ₂ | - | Butile acetato | 80/L | 25 | nr | L | L | L | - | - |
| Butyl Acrylate | C ₇ H ₁₂ O ₂ | - | Butile acrilato | - | 50 | 40 | - | L | L | - | - |
| Butyl Bromide | C ₄ H ₉ Br | - | Butile Bromuro | - | R | R | - | - | - | - | - |
| Butyl Chloride | C ₄ H ₉ Cl | - | Butile cloruro | - | R | R | 0 | 20 | 20 | - | - |
| Butyl Ether | - | - | Butilico etere | - | 40 | nr | 0 | - | - | - | - |
| Butyl Mercaptan | - | - | Butilmercaptano | - | R | R | - | - | - | - | - |
| Butyl Stearate | - | - | Butile stearato | - | 40 | 40 | - | - | - | - | - |
| Butylamine | - | Aqueous solution or solid | Butilamina | nr | nr | nr | - | - | - | - | - |
| Butylene | C ₄ H ₈ | - | Butilene | - | R | R | 0 | - | - | - | - |
| Butylene Glycol | - | - | Butilene glicole | - | R | R | - | R | R | - | - |
| Butylphenol | - | - | Butilfenolo | nr | R | R | - | 20/L | R | - | - |
| Butyraldehyde | C ₄ H ₈ O | - | Butirraldeide | - | 65 | 50 | 0 | - | L | - | - |
| Butyric Acid | C ₄ H ₈ O ₂ | - | Butirrico acido | 40/L | R | R | 0 | L | L | - | - |
| C | | | | | | | | | | | |
| Calcium Acetate | Ca(CH ₃ COO) ₂ | Aqueous solution or solid | Calcio acetato | - | R | R | - | - | - | - | - |
| Calcium Arsenate | Ca ₃ As ₂ O ₈ | Concentrated or paste | Calcio arseniato | 60 | R | R | - | R | R | - | - |
| Calcium Benzoate | Ca(C ₇ H ₅ O ₂) ₂ | - | Calcio benzoato | - | - | - | - | R | R | - | - |
| Calcium Bisulfate | - | Aqueous solution or solid | Calcio bisolfato | - | R | R | 0 | - | - | - | - |
| Calcium Bisulfite | Ca(HSO ₃) ₂ | Aqueous solution or solid | Calcio disolfito | 20 | 95 | R | - | R | R | - | - |
| Calcium Bromate | Ca(BrO ₃) ₂ | - | Calcio bromato | - | - | - | - | R | R | - | - |
| Calcium Bromide | CaBr ₂ | Aqueous solution or solid | Calcio bromuro | - | R | R | - | R | R | - | - |
| Calcium Carbonate | CaCO ₃ | - | Calcio carbonato | 20 | R | R | - | R | R | - | - |
| Calcium Chlorate | Ca(ClO ₃) ₂ | Aqueous solution or solid | Calcio clorato | - | R | R | - | R | R | - | - |
| Calcium Chloride | CaCl ₂ | Aqueous solution or solid | Calcio cloruro | R | R | R | 0 | R | R | - | - |

| SUBSTANCE | FORMULA | CONCENTRATION | SOSTANZA | PA11 - PA12 PA12 EHF _a - PA MB-Tec™ | KYNAR® HD4000 | KYNAR® FLEX 2800 | PTFE - PFA FEP | L.D. PE | H.D. PE | PU ester | PU ether |
|------------------------------|---|---------------------------|-------------------------|--|------------------|---------------------|-------------------|---------|---------|----------|----------|
| Calcium Chromate | CaCrO ₄ | - | Calcio cromato | - | - | - | - | R | R | - | - |
| Calcium Cyanide | Ca(CN) ₂ | - | Calcio cianide | - | - | - | - | R | R | - | - |
| Calcium Hydrosulfide | - | - | Calcio idrossido | - | - | - | - | R | R | - | - |
| Calcium Hydroxide | Ca(OH) ₂ | - | Calcio idrossido | 20 | R | R | 0 | R | R | - | - |
| Calcium Hydroxide Saturated | Ca(OH) ₂ | - | Calcio idrossido | 20 | R | R | 0 | R | R | L | L |
| Calcium Hypochlorite | Ca(ClO) ₂ | Aqueous solution or solid | Calcio ipoclorito | nr | 95 | R | 0 | R | R | - | - |
| Calcium Nitrate | Ca(NO ₃) ₂ | Aqueous solution or solid | Calcio nitrato | 60 | R | R | - | R | R | - | - |
| Calcium Oxide | CaO | - | Calcio ossido | - | R | R | - | R | R | - | - |
| Calcium Perchlorate | Ca(ClO ₄) ₂ | - | Calcio perclorato | - | - | - | - | 20 | R | - | - |
| Calcium Phosphate | Ca ₃ (PO ₄) ₂ | - | Calcio fosfato | - | R | R | - | R | R | - | - |
| Calcium Sulfate | CaSO ₄ | - | Calcio solfato | nr | R | R | - | R | R | - | - |
| Calcium Sulfide | CaS | - | Calcio solfuro | - | - | - | - | - | L | - | - |
| Camphor Oil | C ₁₀ H ₁₆ O | - | Olio di canfora | - | - | - | - | nr | L | - | - |
| Caprylic Acid | C ₈ H ₁₆ O ₂ | - | Caprilico acido | - | 80 | 80 | - | - | - | - | - |
| Carbon Dioxide | CO ₂ | - | Carbonio biossido | R | R | R | 0 | - | R | - | - |
| Carbon Disulfide | CS ₂ | - | Carbonio disolfuro | 40/L | 25 | 25 | - | nr | 20/L | - | - |
| Carbon Monoxide | CO | - | Carbonio monossido | - | R | R | - | R | R | - | - |
| Carbon Tetrachloride | CCl ₄ | - | Carbonio tetracloruro | nr | R | R | 0 | nr | 20/L | - | - |
| Carbonic Acid | H ₂ CO ₃ | - | Carbonico acido | 20 | R | R | 0 | R | R | - | - |
| Casein | - | - | Caseina | R | R | R | - | - | - | - | - |
| Castor Oil | - | - | Olio di ricino | R | R | R | - | R | R | - | - |
| Chloral Hydrate | C ₂ H ₃ Cl ₃ O ₂ | - | Cloradio idrato | - | 25 | 25 | - | L | L | - | - |
| Chloric Acid | HClO ₃ | up to 10 % in water | Acido cloridrico | nr | - | - | - | R | R | - | - |
| Chloride | Cl ⁻ | 5% in CCl ₄ | Cloro | 20/L | 95 | 75 | 0 | - | - | - | - |
| Chlorinated phenol | - | - | Cloro fenolo | nr | 65 | 65 | - | - | - | - | - |
| Chlorine Dioxide | ClO ₂ | - | Cloro biossido | 20/L | 65 | 65 | 0 | - | - | - | - |
| Chlorine Gas | Cl ₂ | - | Cloro gas | nr | 95 | 75 | 0 | nr | 20/L | - | - |
| Chlorine Liquid | Cl ₂ | - | Cloro liquido | nr | 95 | 80 | 0 | nr | 20/L | - | - |
| Chlorine Water | - | - | Acqua di cloro | L | R | R | 0 | L | R | - | - |
| Chloroacetic Acid | C ₂ H ₃ ClO ₂ | Aqueous solution or solid | Cloroacetico acido | nr | nr | nr | 0 | R | R | - | - |
| Chloroacetyl Chloride | C ₂ H ₂ Cl ₂ O | - | Cloruro di cloroacetile | - | 50 | 50 | - | - | - | - | - |
| Chlorobenzene | C ₆ H ₅ Cl | - | Clorobenzene | nr | 75 | 70 | 0 | nr | nr | - | - |
| Chlorobenzene-sulphonic Acid | C ₆ H ₅ O ₃ SO ₃ Cl | Aqueous solution or solid | Clorobenzensolfonico | - | 95 | R | - | - | - | - | - |
| Chlorobenzyl Chloride | - | - | Cloruro di clorobenzile | - | 50 | 50 | - | - | - | - | - |
| Chloroethanol | C ₂ H ₅ ClO | - | Cloro etanolo | - | - | - | - | R | R | - | - |
| Chloroform | CHCl ₃ | - | Cloroformio | 40/L | 50 | 50 | 0 | nr | nr | - | - |
| Chlorohexanol | C ₆ H ₁₃ OCl | - | Cloroesanolo | - | 75 | 75 | - | - | - | - | - |
| Chlorohydrin | - | - | Cloridrina | nr | 50 | 50 | - | - | - | - | - |
| Chloropicrin | CCl ₃ NO ₂ | - | Cloropicrina | - | 65 | 65 | - | - | 20/L | - | - |
| Chloropropene | C ₃ H ₅ Cl | - | Cloropropene | - | - | - | - | nr | 20/L | - | - |
| Chlorosulphonic Acid | ClHSO ₃ | - | Clorosolfonico acido | nr | nr | 25 | 0 | nr | nr | - | - |
| Chlorotrimethylsilane | C ₃ H ₉ SiCl | - | Clorotrimetilsilano | - | 50 | 50 | - | - | - | - | - |
| Chrome Alum | - | Aqueous solution or solid | Cromo allume | 20/L | 95 | R | - | R | R | - | - |
| Chromic Acid | H ₂ CrO ₄ | 50% in water | Cromico acido | nr | 50 | 65 | 0 | 20/L | L | - | - |
| Chromic Acid | H ₂ CrO ₄ | Up to 40% in water | Cromico acido | nr | 80 | 80 | 0 | 20/L | L | - | - |
| Chromyl Chloride | CrO ₂ Cl ₂ | - | Cromile cloruro | - | 50 | 50 | - | - | - | - | - |
| Cider | - | - | Sidro | 20 | R | R | 0 | R | R | - | - |
| Citric Acid | C ₆ H ₈ O ₇ | 3% in water | Citrico acido | L | R | R | 0 | R | R | nr | L |
| Citric Acid | C ₆ H ₈ O ₇ | Aqueous solution or solid | Citrico acido | 60/L | R | R | 0 | R | R | - | - |
| Coal Gas | - | - | Gas di carbone | 60/L | R | R | - | L | L | - | - |
| Coconut Oil | - | - | Olio di cocco | R | R | R | 0 | L | L | - | - |
| Copper Acetate | Cu(CH ₃ COO) ₂ | Aqueous solution or solid | Rame acetato | - | R | R | - | - | - | - | - |
| Copper Basic Carbonate | CuCO ₃ | - | Rame carbonato basico | - | R | R | - | - | - | - | - |
| Copper Chloride | CuCl ₂ | Aqueous solution or solid | Rame cloruro | nr | R | R | - | R | R | - | - |
| Copper Cyanide | CuCN | - | Rame cianuro | nr | R | R | - | R | R | - | - |
| Copper Fluoride | CuF | - | Rame fluoruro | 20/L | R | R | - | R | R | - | - |
| Copper Nitrate | Cu(NO ₃) ₂ | Aqueous solution or solid | Rame nitrato | nr | R | R | - | R | R | - | - |
| Copper Sulfate | CuSO ₄ | Aqueous solution or solid | Rame solfato | R | R | R | 0 | R | R | - | - |
| Corn Oil | - | - | Olio di mais | R | R | R | 0 | R | R | - | - |
| Cottonseed Oil | - | - | Olio di cotone | R | R | R | 0 | L | R | - | - |
| Cresol mixture | - | - | Cresolo | nr | 65 | 65 | 0 | 20/L | 20/L | - | - |
| Cresylic Acid | CH ₃ C ₉ H ₄ OH | - | Cresilico acido | nr | 65 | 65 | - | - | 20/L | - | - |
| Crotonaldehyde | C ₄ H ₆ O | - | crotonaldeide | - | 50 | 40 | - | 20/L | L | - | - |
| Crude Oil | - | - | Crude Oil | 80/L | R | R | - | nr | nr | - | - |
| Cryolite | Na ₃ AlF ₆ | - | Criolite | - | R | R | - | - | - | - | - |
| Cuprous Chloride | CuCl | - | Cloruro rameoso | - | R | R | - | - | - | - | - |
| Cyclohexane | C ₆ H ₁₂ | - | Cicloesano | 80/L | R | R | 0 | nr | nr | - | - |
| Cyclohexanol | C ₆ H ₁₂ O | - | Cicloesanolo | 40/L | 65 | 65 | 0 | 20/L | S | - | - |
| Cyclohexanone | C ₆ H ₁₀ O | - | Cicloesanone | 40/L | 25 | 25 | 0 | nr | L | - | - |

| SUBSTANCE | FORMULA | CONCENTRATION | SOSTANZA | PA11 - PA12 PA12 EHF _a - PA MB-Tec™ | KYNAR® HD4000 | KYNAR® FLEX 2800 | PTFE - PFA FEP | L.D. PE | H.D. PE | PU ester | PU ether |
|---------------------------------|---|----------------------------------|---------------------------------|--|------------------|---------------------|-------------------|---------|---------|----------|----------|
| D | | | | | | | | | | | |
| Decahydronaphthalene | - | - | Decaidronaftalene | 20 | - | - | - | 20/L | L | - | - |
| Decane | - | - | Decane | - | R | R | - | nr | 20/L | - | - |
| Detergents, synthetic | C ₁₅ H ₁₀ N ₂ O ₂ | - | Detergenti sintetici | 20 | - | - | - | R | R | - | - |
| Dextrin | (C ₆ H ₁₀ O ₅) _n | Aqueous solution or solid | Destrina | - | R | R | 0 | R | R | - | - |
| Dextrose | C ₆ H ₁₂ O ₆ | Solution not saturated | Destrosio | - | R | R | - | R | R | - | - |
| Diacetone Alcohol | C ₆ H ₁₂ O ₂ | - | Diaceton alcool | 60/L | 25 | nr | 0 | - | - | - | - |
| Dibromobenzene | C ₆ H ₄ Br ₂ | - | Dibromobenzene | - | 95 | R | - | - | - | - | - |
| Dibromopropane | - | - | Dibromopropano | - | 95 | R | - | - | - | - | - |
| Dibutyl Ether | C ₈ H ₁₈ O | - | Dibutil Etere | - | - | - | - | nr | 20/L | - | - |
| Dibutyl Phtalate | C ₁₆ H ₂₂ O ₄ | - | Dibutil ftalato | 20 | nr | nr | 0 | L | L | - | - |
| Dibutyl Sebacate | C ₁₈ H ₃₄ O ₄ | - | Dibutilico sebacato | - | nr | nr | - | 20/L | L | - | - |
| Dibutylamine | C ₈ H ₁₉ N | Aqueous solution or liquid | Dibutilamina | - | 20 | nr | - | nr | 20/L | - | - |
| Dichloroacetic Acid | C ₂ H ₂ Cl ₂ O ₂ | Aqueous solution or liquid | Dicloracetico acido | - | 50 | 50 | - | 20 | L | - | - |
| Dichlorobenzene | C ₆ H ₄ Cl ₂ | - | Diclorobenzene | - | 65 | 65 | 0 | nr | nr | - | - |
| Dichlorodimethylsilane | C ₂ H ₆ Cl ₂ Si | - | DicloroDimetilsilano | - | 50 | 50 | - | - | - | - | - |
| Dichloroethylene | C ₂ H ₂ Cl ₂ | - | Dicloretilene | 20 | R | R | 0 | nr | nr | - | - |
| Dichloropropionic Acid | C ₃ H ₃ Cl ₂ O ₂ | - | Dicloropropionico acido | - | 50 | 50 | - | - | - | - | - |
| Dichloropropylene | C ₃ H ₄ Cl ₂ | - | Dicloropropilene | - | - | - | - | nr | nr | - | - |
| Dichlorotoluene | C ₇ H ₆ Cl ₂ | - | Diclorotoluene | - | 65 | 65 | - | - | - | - | - |
| Diesel Fuels | - | - | Gasolio | 60 | R | R | 0 | L/20 | L | - | - |
| Diethanolamine | C ₄ H ₁₁ NO ₂ | Aqueous solution or liquid | Dietanolamina | 60 | nr | nr | 0 | 20 | 20 | - | - |
| Diethyl Ether | C ₄ H ₁₀ O | - | Etere dietilico | 20 | - | - | - | nr | 20/L | - | - |
| Diethyl Malonate | C ₇ H ₁₂ O ₄ | - | Malonato di dietile | - | nr | nr | - | - | - | - | - |
| Diethylamine | C ₄ H ₁₁ N | Aqueous solution or liquid | Dietilamina | - | 25 | nr | 0 | - | - | - | - |
| Diethylene glycol | C ₄ H ₁₀ O ₃ | - | Dietilenglicole | 60 | - | - | - | R | R | - | - |
| Diethylenetriamine | C ₄ H ₁₃ N ₃ | Aqueous solution or liquid | Dietilenetriamina | - | 50 | 40 | - | - | - | - | - |
| Diglycolic Acid | C ₄ H ₆ O ₅ | - | Acido diglicolico | - | 25 | 25 | - | R | R | - | - |
| Diisobutyl Ketone | C ₉ H ₁₈ O | - | Diisobutilchetone | - | 50 | 25 | - | L | L | - | - |
| Diisobutylene | C ₈ H ₁₆ | - | Diisobutilene | - | R | R | - | - | - | - | - |
| Diisopropyl Ketone | C ₇ H ₁₄ O | - | Diisopropilchetone | - | 20 | nr | - | - | - | - | - |
| Dimethyl Acetamide | C ₄ H ₉ NO | - | Dimetilacetamide | - | nr | nr | 0 | - | - | - | - |
| Dimethyl Formamide | C ₃ H ₇ NO | - | Dimetilformamide | R/L | nr | nr | 0 | L | R | - | - |
| Dimethyl Phthalate | C ₁₀ H ₁₀ O ₄ | - | Dimetilico ftalato | - | 25 | nr | 0 | - | - | - | - |
| Dimethyl Sulfoxide | C ₂ H ₆ OS | - | Dimetilico solfossido | 40/L | nr | nr | 0 | 20 | R | - | - |
| Dimethyl Sulfate | C ₂ H ₆ O ₄ S | - | Dimetilico solfato | 40/L | 25 | 25 | - | - | - | - | - |
| Dimethyl-1,5-hexadiene | C ₇ H ₁₂ | - | Dimetilesadiene | - | R | R | - | - | - | - | - |
| Dimethyl-4-heptanol | C ₉ H ₁₈ O | - | Dimetileptanolo | - | 95 | R | - | - | - | - | - |
| Dimethylamine | (CH ₃) ₂ NH | Aqueous solution or gas | Dimetilamina | - | 25 | nr | 0 | nr | - | - | - |
| Dimethylaniline | C ₈ H ₁₁ N | - | Dimetilalanilina | - | 25 | 25 | - | - | - | - | - |
| Dioctyl Phthalate | C ₂₄ H ₃₈ O ₄ | - | Diocetil Ftalato | 80/L | 25 | 25 | - | 20/L | 20 | - | - |
| Dioxane | C ₄ H ₈ O ₂ | - | Diossano | R | nr | nr | 0 | - | R | - | - |
| Dioxolane | C ₃ H ₆ O ₂ | - | Diossolano | - | nr | nr | - | - | - | - | - |
| Dipentene | C ₁₀ H ₁₆ | - | Dipentene | - | - | - | - | nr | nr | - | - |
| Dipropylene Glycol Methyl Ether | - | - | Dipropilene glicole metil etere | - | 25 | nr | - | - | - | - | - |
| Disodium Phosphate | Na ₂ HPO ₄ | Aqueous solution or solid | Fosfato disodico | - | 95 | R | - | R | R | - | - |
| Disodium Sulfate | Na ₂ HSO ₄ | - | Solfato di disodio | - | - | - | - | R | R | - | - |
| Divinyl Benzene | C ₁₀ H ₁₀ | - | Divinilbenzene | - | 50 | 50 | - | - | - | - | - |
| E | | | | | | | | | | | |
| Epichlorohydrin | C ₃ H ₅ ClO | - | Epicloridrina | - | 40 | nr | - | R | R | - | - |
| Epsom Salts | MgSO ₄ | Aqueous solution or solid | Sali di Epsom | - | R | R | - | - | - | - | - |
| Ethanethiol | C ₂ H ₆ S | - | Etantiolo | - | 25 | 25 | 0 | - | - | - | - |
| Ethanol | C ₂ H ₆ O | - | Etanolo | 40/L | - | - | - | L | L | nr | L |
| Ethanolamine | C ₂ H ₇ NO | Aqueous solution or liquid | Etanolamina | - | nr | nr | 0 | 20 | 20 | - | - |
| Ethyl Acetate | C ₄ H ₈ O ₂ | - | Etile acetato | 60 | nr | nr | 0 | 20/L | 20/L | nr | nr |
| Ethyl Acetoacetate | C ₆ H ₁₀ O ₃ | - | Etile acetoacetato | - | 25 | 25 | - | - | - | - | - |
| Ethyl Acrylate | C ₅ H ₈ O ₂ | - | Etile acrilato | - | 25 | 25 | - | nr | 20/L | - | - |
| Ethyl Alcohol | C ₂ H ₆ O | Aqueous solution or liquid, <10% | Etilico alcool | 30/L | R | R | 0 | R | R | - | - |
| Ethyl Benzene | C ₈ H ₁₀ | - | Etilbenzene | - | 50 | 50 | 0 | nr | nr | - | - |
| Ethyl Chloride | C ₂ H ₅ Cl | - | Etile cloruro | 20 | R | R | 0 | nr | nr | - | - |
| Ethyl Chloroacetate | C ₄ H ₇ ClO ₂ | - | Etile cloroacetato | - | 25 | 25 | - | - | - | - | - |
| Ethyl Chloroformate | C ₃ H ₅ ClO ₂ | - | Etile cloroformiato | - | 50 | 50 | - | - | - | - | - |
| Ethyl Cyanoacetate | - | - | Etile cianoacetato | - | 25 | 25 | 0 | - | - | - | - |
| Ethyl Ether | C ₄ H ₁₀ O | - | Etilico etere | 30/L | 50 | 40 | 0 | nr | nr | - | - |
| Ethyl Formate | C ₃ H ₆ O ₂ | - | Etile formiato | - | 25 | 25 | 0 | - | - | - | - |
| Ethyl mercaptan | C ₂ H ₆ S | - | Mercaptano etilico | - | - | - | - | nr | nr | - | - |
| Ethyl-1-hexanol | - | - | Etil-esanolo | - | R | R | - | 20 | 20 | - | - |
| Ethylene Chlorohydrin | C ₂ H ₅ ClO | Aqueous solution or liquid | Etilencloridrina | nr | 25 | 25 | - | nr | nr | - | - |
| Ethylene Dichloride | C ₂ H ₄ Cl ₂ | - | Etilene dicloruro | 60/L | R | R | 0 | 20/L | 20/L | - | - |

| SUBSTANCE | FORMULA | CONCENTRATION | SOSTANZA | PA11 - PA12 PA12 EHF _a - PA MB-TEC™ | KYNAR® HD4000 | KYNAR® FLEX 2800 | PTFE - PFA FEP | L.D. PE | H.D. PE | PU ester | PU ether |
|---------------------------------|---|----------------------------|--------------------------|--|------------------|---------------------|-------------------|---------|---------|----------|----------|
| Ethylene Glycol | C ₂ H ₆ O ₂ | Aqueous solution or liquid | Glicole etilenico | 60/L | R | R | 0 | R | R | nr | L |
| Ethylene Oxide liquid | C ₂ H ₄ O | - | Etilene ossido liquido | 40 | R | R | 0 | - | R | - | - |
| Ethylenediamine | C ₂ H ₈ N ₂ | Aqueous solution or liquid | Etilendiamina | - | R | R | 0 | L | R | - | - |
| F | | | | | | | | | | | |
| Fatty Acids esters | - | - | Acidi Grassi estere | R | R | R | - | L | L | - | - |
| Fatty Acids, Sulfonates | - | - | Acidi grassi, sulfonati | - | 80 | 80 | - | 20 | 20 | - | - |
| Ferric Chloride | FeCl ₃ | Aqueous solution or solid | Ferrico cloruro | 20 | R | R | 0 | R | R | - | - |
| Ferric Hydroxide | Fe(OH) ₂ | - | Ferrico idrossido | - | R | R | - | - | - | - | - |
| Ferric Nitrate | Fe(NO ₃) ₃ | Aqueous solution or solid | Ferrico nitrato | - | R | R | - | R | R | - | - |
| Ferric Sulfide | C ₂ H ₄ O | - | Ferrico solfuro | - | R | R | - | - | - | - | - |
| Ferric Sulfate | Fe ₂ (SO ₄) ₃ | - | Ferrico solfato | 20 | R | R | 0 | R | R | - | - |
| Ferrous Chloride | FeCl ₂ | Aqueous solution or solid | Ferroso cloruro | nr | R | R | 0 | R | R | - | - |
| Ferrous Hydroxide | Fe(OH) ₂ | - | Ferroso idrossido | - | R | R | - | - | - | - | - |
| Ferrous Nitrate | Fe(NO ₃) ₂ | Aqueous solution or solid | Ferroso nitrato | - | R | R | - | - | - | - | - |
| Ferrous Sulfate | FeSO ₂ | - | Ferroso solfato | nr | R | R | 0 | R | R | - | - |
| Fluorine gas | F ₂ | - | Fluoro gas | nr | 25 | 25 | L | nr | nr | - | - |
| Fluoroboric Acid | - | Aqueous solution | Fluoroborico acido | - | R | R | 0 | L | L | - | - |
| Fluorosilic Acid | H ₂ SiF ₆ | Concentrated | Fluorosilicico acido | nr | R | R | 0 | L | L | - | - |
| Formaldehyde | CH ₂ O | 37% in water | Formaldeide | 40/L | 50 | 50 | 0 | R | R | - | - |
| Formic Acid | CH ₂ O ₂ | 3% in water | Formico acido | nr | R | R | 0 | R | R | nr | L |
| Formic Acid | CH ₂ O ₂ | Aqueous solution or liquid | Formico acido | nr | R | R | 0 | R | R | - | - |
| Fructose | C ₆ H ₁₂ O ₆ | Aqueous solution or solid | Fruttosio | R | R | R | 0 | R | R | - | - |
| Fruit Juice, Pulp | - | - | Frutta succhi | R | R | R | 0 | R | R | - | - |
| Fuel Blend Diesel/Biodiesel | - | - | Biodisel | 60/L | 60 | 60 | - | - | - | - | - |
| Fuel C | - | - | Fuel C | - | 60 | 60 | - | - | - | - | - |
| Fuel CE 10 | - | - | Fuel CE 10 | - | 60 | 60 | - | - | - | - | - |
| Fuel CM15 | - | - | Fuel CM15 | - | 60 | 60 | - | - | - | - | - |
| Fuel E85 | - | - | Fuel E85 | - | 60 | 60 | - | - | - | - | - |
| Fuel Oil | - | - | Olio Combustibile | 60/L | R | R | 0 | 20/L | L | - | - |
| Fuel Rapeseed Oil Biodisel 100% | - | - | Carburante Olio di Colza | - | 60 | 60 | - | - | - | - | - |
| Fumaric Acid | C ₄ H ₄ O ₄ | - | Fumarico acido | - | 75 | 65 | - | - | - | - | - |
| Furan | C ₄ H ₄ O | - | Furano | - | nr | nr | - | - | - | - | - |
| Furfural | C ₅ H ₄ O ₂ | - | Furfurolo | 60/L | 25 | 25 | 0 | nr | nr | - | - |
| Furfuryl Alcohol | C ₅ H ₆ O ₂ | Aqueous solution or liquid | Furfurilico alcool | 40 | 40 | 40 | - | 20/L | L | - | - |
| G | | | | | | | | | | | |
| Gallic Acid | C ₇ H ₆ O ₅ | - | Gallico acido | 20 | 25 | 25 | 0 | R | R | - | - |
| Gas, natural | - | - | Gas naturale | R | R | R | 0 | 20 | 20 | - | - |
| Gasoline, leaded | - | - | Benzina, piombo | - | R | R | 0 | - | - | - | - |
| Gasoline, sour | - | - | Benzina, sour | - | R | R | - | 20/L | L | - | - |
| Gasoline, unleaded | - | - | Benzina senza piombo | L | R | R | 0 | - | - | - | - |
| Gelatin | - | - | Gelatina | - | R | R | 0 | R | R | - | - |
| Gin | - | - | Gin | - | R | R | 0 | 20 | 20 | - | - |
| Glucose | C ₆ H ₁₂ O ₆ | Aqueous solution or solid | Glucosio | R | R | R | 0 | R | R | - | - |
| Glue | - | - | Colla | - | R | R | - | R | R | - | - |
| Glutamic Acid | C ₅ H ₉ NO ₄ | - | Glutammico acido | - | 95 | R | - | - | - | - | - |
| Glycerine | C ₃ H ₈ O ₃ | Aqueous solution or liquid | Glicerina | 60/L | R | R | 0 | R | R | - | - |
| Glycine | C ₂ H ₅ NO ₂ | Aqueous solution or solid | Glicina | - | 25 | 25 | - | R | R | - | - |
| Glycolic Acid | C ₂ H ₄ O ₃ | - | Glicolico acido | - | 25 | 25 | - | L | R | - | - |
| H | | | | | | | | | | | |
| Heptane | C ₇ H ₁₆ | - | Eptano | R | R | R | 0 | nr | 20/L | - | - |
| Hexachloro-1,3-Butadiene | C ₄ Cl ₆ | - | Esacoloro-Butadiene | - | 50 | 50 | - | - | - | - | - |
| Hexachlorobenzene | C ₆ Cl ₆ | - | Esacolorobenzene | - | - | - | - | R | L | - | - |
| Hexachlorophene | C ₁₃ H ₆ Cl ₆ O ₂ | - | Esacolorofene | - | - | - | - | nr | L | - | - |
| Hexamethylenediamine | C ₆ H ₁₆ N ₂ | - | Esametildiamina | - | nr | nr | - | - | - | - | - |
| Hexamethylphosphotriamide | - | - | Esametilfosfotriamide | - | nr | nr | - | - | - | - | - |
| Hexane | C ₆ H ₁₄ | - | Esano | 60/L | R | R | 0 | L | L | - | - |
| Hexyl Alcohol | C ₆ H ₁₄ O | - | Esilico Alcool | - | 80 | 80 | - | - | - | - | - |
| Hydraulic fluid | - | - | Fluido idraulico | L | - | - | - | - | - | nr | nr |
| Hydrazine | N ₂ H ₄ | Aqueous solution or liquid | Idrazina | - | 95 | R | 0 | - | - | - | - |
| Hydrazine Dichloridrate | - | Aqueous solution or solid | Idrazinabicloridrate | - | 25 | 25 | - | - | - | - | - |
| Hydrazine-Hydrate | - | Aqueous solution or liquid | Idrazina idrata | - | 50 | 50 | - | R | R | - | - |
| Hydriodic Acid | HI | Aqueous solution | Acido iodidrico | - | R | R | - | - | - | - | - |
| Hydrobromic Acid | HBr | up to 50 % in water | Bromidrico acido | nr | R | R | - | R | R | - | - |
| Hydrochloric Acid | HCl | 3% in water | Cloridrico acido | - | R | R | 0 | R | R | nr | L |
| Hydrochloric Acid | HCl | Up to "concentrated" | Cloridrico acido | nr | R | R | 0 | R | R | - | - |
| Hydrocyanic Acid | HCN | Aqueous solution | Cianidrico acido | - | R | R | 0 | R | R | - | - |
| Hydrofluoric Acid | HF | - | Fluoridrico acido | nr | 95 | R | 0 | L | L | - | - |
| Hydrogen gas | H ₂ | - | Idrogeno gas | R | R | R | 0 | - | - | - | - |
| Hydrogen Peroxide | H ₂ O ₂ | Up to 20% in water | Idrogeno perossido | 40/L | 70 | R | 0 | L | R | L | L |

| SUBSTANCE | FORMULA | CONCENTRATION | SOSTANZA | PA11 - PA12 PA12 EHF _a - PA MB-Tec™ | KYNAR® HD4000 | KYNAR® FLEX 2800 | PTFE - PFA FEP | L.D. PE | H.D. PE | PU ester | PU ether |
|----------------------|--|--------------------------------|---------------------|--|------------------|---------------------|-------------------|---------|---------|----------|----------|
| Hydrogen Peroxide | H ₂ O ₂ | 90% in water | Iidrogeno perossido | nr | 20 | 20 | 0 | 20/L | 20/L | - | - |
| Hydrogen Sulfide | H ₂ S | Aqueous solution | Solfidrico acido | 60/L | R | R | 0 | R | R | - | - |
| Hydroquinone | C ₆ H ₆ O ₂ | - | Iidrochinone | - | R | R | 0 | R | - | - | - |
| Hydroxylamine | H ₃ NO | up to 12% | Ildrossilammina | - | - | - | - | R | R | - | - |
| Hypochlorous Acid | HClO | Aqueous solution | Ipcoloroso acido | - | 20 | 20 | - | 20/L | 20/L | - | - |
| I | | | | | | | | | | | |
| Iodine | I ₂ | 10% in Non-Aqueous solvent | Iodio | - | 65 | 65 | 0 | nr | nr | - | - |
| Iodine, gas | I ₂ | - | Iodio, gas | - | 65 | 65 | 0 | - | - | - | - |
| Iodoform | CHI ₃ | - | Iodoformio | - | 95 | R | - | - | - | - | - |
| Isopentane | C ₅ H ₁₂ | - | Iso pentano | - | - | - | - | nr | nr | - | - |
| Isoamyl Ether | C ₁₀ H ₂₂ O | - | Etere di isoamile | - | R | 50 | - | - | - | - | - |
| Isobutyl Alcohol | C ₄ H ₁₀ O | - | Isobutilico alcool | - | R | R | 0 | - | - | - | - |
| Isoctane pure | C ₈ H ₁₈ | - | Isoottano | - | R | R | 0 | 20/L | L | - | - |
| Isophorone | C ₉ H ₁₄ O | - | Isoforone | - | 80 | 50 | - | - | - | - | - |
| Isopropyl Alcohol | C ₃ H ₈ O | Aqueous solution or liquid | Isopropilico alcool | 30/L | 60 | 60 | 0 | - | - | - | - |
| Isopropyl Amine | C ₃ H ₉ N | - | Isopropilico Amine | - | - | - | - | nr | nr | - | - |
| Isopropyl Benzene | C ₉ H ₁₂ | - | Isopropilbenzene | - | 40 | 40 | 0 | - | - | - | - |
| Isopropyl Chloride | C ₃ H ₇ Cl | - | Isopropile cloruro | - | 40 | 40 | - | - | - | - | - |
| Isopropyl Ether | C ₆ H ₁₄ O | - | Isopropilico etere | - | 50 | 50 | 0 | 20/L | 20/L | - | - |
| J | | | | | | | | | | | |
| Jet Fuel (JP4, JP5) | - | - | Carburante per jet | - | 95 | R | 0 | - | - | - | - |
| K | | | | | | | | | | | |
| Kerosene | - | - | Cherosene | 60/L | R | R | 0 | nr | nr | - | - |
| L | | | | | | | | | | | |
| Lactic Acid | C ₃ H ₆ O ₃ | 3% in water | Lattico acido | R | 50 | 50 | 0 | R | R | nr | L |
| Lactic Acid | C ₃ H ₆ O ₃ | Aqueous solution or pure | Lattico acido | 80/L | 50 | 50 | 0 | R | R | - | - |
| Lanolin | - | - | LanoLina | 60 | R | R | - | R | R | - | - |
| Lard Oil | - | - | Olio di lardo | R | R | R | - | - | - | - | - |
| Lauric Acid | C ₁₂ H ₂₄ O ₂ | 3% in water | Laurico acido | - | R | R | 0 | - | - | nr | L |
| Lauric Acid | C ₁₂ H ₂₄ O ₂ | - | Laurico acido | - | R | R | 0 | - | - | - | - |
| Lauryl Chloride | C ₁₂ H ₂₅ Cl | - | Laurile cloruro | - | R | R | - | - | - | - | - |
| Lauryl Mercaptan | - | - | Laurilmercaptano | - | 95 | R | - | - | - | - | - |
| Lauryl Sulfate | - | - | Laurile solfato | - | R | R | - | - | - | - | - |
| Lead Acetate | Pb(C ₂ H ₃ O ₂) ₂ | Aqueous solution or solid | Piombo acetato | - | R | R | 0 | R | R | - | - |
| Lead Chloride | PbCl ₂ | - | Piombo cloruro | - | R | R | - | - | - | - | - |
| Lead Nitrate | Pb(NO ₃) ₂ | Aqueous solution or solid | Piombo nitrato | - | R | R | - | - | - | - | - |
| Lead Sulfate | PbSO ₄ | - | Piombo solfato | - | R | R | - | - | - | - | - |
| Lemon Oil | - | - | Olio di limone | R | R | R | 0 | - | - | - | - |
| Linoleic Acid | C ₁₈ H ₃₂ O ₂ | - | Linoleico acido | - | R | R | - | - | - | - | - |
| Linseed Oil | - | - | Olio di lino | R | R | R | 0 | L | R | - | - |
| Lithium Bromide | LiBr | Aqueous solution or solid | Litio bromuro | - | R | R | - | R | R | - | - |
| Lithium Chloride | LiCl | Aqueous solution or solid | Litio cloruro | - | R | R | nr | - | - | - | - |
| Lubricating Oil | - | - | Olio lubrificante | R | R | R | 0 | R | R | - | - |
| Lysol | - | - | Lisolo | - | - | - | - | nr | 20/L | - | - |
| M | | | | | | | | | | | |
| Magnesium Carbonate | MgCO ₃ | - | Magnesio carbonato | - | R | R | - | R | R | - | - |
| Magnesium Chloride | MgCl ₂ | Aqueous solution or solid, 50% | Magnesio cloruro | R | R | R | 0 | R | R | - | - |
| Magnesium Citrate | C ₆ H ₆ MgO ₇ | - | Magnesio citrato | - | R | R | - | R | R | - | - |
| Magnesium Hydroxide | Mg(OH) ₂ | - | Magnesio idrossido | 20 | R | R | 0 | R | R | - | - |
| Magnesium Nitrate | Mg(NO ₃) ₂ | Aqueous solution or solid | Magnesio nitrato | - | R | R | - | R | R | - | - |
| Magnesium Salts | - | Cold sat. | Magnesio Sali | R | R | R | - | R | R | - | - |
| Magnesium Sulfate | MgSO ₄ | Aqueous solution or solid | Magnesio solfato | - | R | R | - | R | R | - | - |
| Maleic Acid | C ₄ H ₄ O ₄ | Aqueous solution or solid | Maleico acido | - | R | R | 0 | - | - | - | - |
| Maleic Anhydride | C ₄ H ₂ O ₃ | - | Maleica anidride | - | 25 | nr | - | - | - | - | - |
| Malic Acid | C ₄ H ₄ O ₄ | Aqueous solution or solid | Malico acido | - | R | R | - | - | - | - | - |
| Manganese Sulfate | MnSO ₄ | Aqueous solution or solid | Manganese solfato | - | R | R | - | - | - | - | - |
| Mercuric Chloride | HgCl ₂ | - | Mercurico cloruro | - | R | R | 0 | R | R | - | - |
| Mercuric Cyanide | Hg(CN) ₂ | - | Mercurico cianuro | - | R | R | - | R | R | - | - |
| Mercuric Nitrate | Hg(NO ₃) ₂ | Aqueous solution or solid | Mercurico nitrato | - | R | R | - | R | R | - | - |
| Mercury | Hg | - | Mercurio | R | R | R | 0 | R | R | - | - |
| Methacrylic Acid | C ₄ H ₆ O ₂ | - | Metacrilico acido | - | 50 | 50 | - | L | R | - | - |
| Methane | CH ₄ | - | Metano | R | R | R | 0 | - | - | - | - |
| Methanesulfonic Acid | CH ₄ O ₃ S | Aqueous solution or liquid | Metansolfonico | - | 95 | R | - | - | - | - | - |
| Methanol | CH ₄ O | 3% in water | Metanolo | 40/L | R | R | - | L | R | nr | 20/L |
| Methanol | CH ₄ O | Aqueous solution or liquid | Metanolo | 40/L | R | R | - | L | R | - | - |
| Methyl Acetate | C ₃ H ₆ O ₂ | - | Metile acetato | 60 | 40 | 40 | 0 | 20 | 20 | - | - |

| SUBSTANCE | FORMULA | CONCENTRATION | SOSTANZA | PA11 - PA12 PA12 EHF _a - PA MB-Tec™ | KYNAR® HD4000 | KYNAR® FLEX 2800 | PTFE - PFA FEP | L.D. PE | H.D. PE | PU ester | PU ether |
|---------------------------|---|----------------------------|-------------------------|--|------------------|---------------------|-------------------|---------|---------|----------|----------|
| Methyl Acrylate | C ₄ H ₆ O ₂ | - | Metile acrilato | - | 40 | 25 | - | L | R | - | - |
| Methyl Alcohol | CH ₄ O | 6% in water | Metilico alcool | 20/L | R | R | - | L | R | - | - |
| Methyl Bromide | CH ₃ Br | - | Metile bromuro | 20 | R | R | - | nr | nr | - | - |
| Methyl Chloride | CH ₃ Cl | - | Metile cloruro | 20 | R | R | - | nr | nr | - | - |
| Methyl Chloroacetate | C ₃ H ₅ ClO ₂ | - | Metile cloroacetato | - | 25 | nr | - | - | - | - | - |
| Methyl Chloroform | C ₂ H ₃ Cl ₃ | - | Metilcloroformio | - | 50 | 50 | - | - | - | - | - |
| Methyl Chloromethyl Ether | C ₂ H ₅ ClO | - | Metile, etere cloro | - | 25 | nr | - | - | - | - | - |
| Methyl Ethyl Ketone | C ₄ H ₈ O | - | Metiletilchetone | 60/L | nr | nr | 0 | 20/L | L | - | - |
| Methyl Isobutyl Ketone | C ₆ H ₁₂ O | - | Metilisobutilchetone | 60/L | nr | nr | 0 | 20 | 20 | - | - |
| Methyl Methacrylate | C ₅ H ₈ O ₂ | - | Metilmetacrilato | - | 50 | 40 | 0 | - | - | - | - |
| Methyl Salicylate | C ₈ H ₈ O ₃ | - | Metile salicilato | - | 65 | 65 | 0 | - | - | - | - |
| Methyl Sulfate | CH ₄ SO ₄ | - | Metile solfato | 60/L | - | ok | - | - | - | - | - |
| Methyl Sulphuric Acid | - | Aqueous solution or liquid | Metilsolforico acido | - | 50 | 50 | - | R | R | - | - |
| Methylamine | CH ₅ N | - | Metilammina | - | nr | nr | - | - | - | - | - |
| Methylene Bromide | CH ₂ Br ₂ | - | Metilene bromuro | - | 80 | 80 | - | - | - | - | - |
| Methylene Chloride | CH ₂ Cl ₂ | - | Metilene cloruro | nr | 50 | 25 | 0 | nr | nr | - | - |
| Methylene Iodide | CH ₂ I ₂ | - | Metilene ioduro | - | 95 | R | - | - | - | - | - |
| Methyltrichlorosilane | CH ₃ Cl ₃ Si | - | Metiltriclorosilano | - | 65 | 65 | - | - | - | - | - |
| Milk | - | - | Latte | R | R | R | 0 | R | R | - | - |
| Mineral Oil | - | - | Olio minerale | R | R | R | 0 | 20/L | L | - | - |
| Molasses | - | - | Melassa | - | 80 | 80 | 0 | R | R | - | - |
| Morpholine | C ₄ H ₉ NO | Aqueous solution or liquid | Morfolina | - | 25 | 25 | - | 20 | R | - | - |
| Motor Oil | - | - | Olio motore | 60 | R | R | - | L | R | - | - |
| N | | | | | | | | | | | |
| Naphtha | - | - | Nafta | 60/L | R | R | 0 | 20/L | 20/L | - | - |
| Naphthalene | C ₁₀ H ₈ | - | Naftalina | 80/L | 95 | R | 0 | nr | 20/L | - | - |
| Nickel Acetate | C ₄ H ₆ NiO ₄ | Aqueous solution or solid | Nichel acetato | - | R | R | - | - | - | - | - |
| Nickel Chloride | NiCl ₂ | Aqueous solution or solid | Nichel cloruro | - | R | R | 0 | R | R | - | - |
| Nickel Nitrate | Ni(NO ₃) ₂ | Aqueous solution or solid | Nichel Nitrato | - | R | R | - | R | R | - | - |
| Nickel Sulfate | NiSO ₄ | Aqueous solution or solid | Nichel solfato | - | R | R | 0 | R | R | - | - |
| Nicotine | C ₁₀ H ₁₄ N ₂ | - | Nicotina | - | 20 | 20 | - | R | R | - | - |
| Nicotinic Acid | C ₆ H ₅ NO ₂ | - | Acido nicotinicco | - | R | R | - | L | L | - | - |
| Nitric Acid | HNO ₃ | 3% in water | Nitrico acido | nr | 80 | 80 | 0 | R | R | nr | nr |
| Nitric Acid | HNO ₃ | 11-70% in water | Nitrico acido | nr | 50 | 65 | 0 | L | L | - | - |
| Nitric Acid | HNO ₃ | up to 10% in water | Nitrico acido | nr | 80 | 80 | 0 | R | R | - | - |
| Nitric Acid, fuming | HNO ₃ | - | Nitrico acido, fumi | nr | nr | nr | 0 | nr | nr | - | - |
| Nitrobenzene | C ₆ H ₅ NO ₂ | - | Nitrobenzene | 20/L | 25 | 25 | 0 | nr | nr | - | - |
| Nitroethane | C ₂ H ₅ NO ₂ | - | Nitroetano | - | 20 | 20 | - | 20/L | 20/L | - | - |
| Nitrogen | N ₂ | - | Azoto | L | R | R | 0 | - | - | - | - |
| Nitrogen Dioxide | NO ₂ | - | Azoto Biossido | - | 75 | 75 | 0 | - | - | - | - |
| Nitroglycerin | C ₃ H ₅ N ₃ O ₉ | - | Nitroglicerina | - | 50 | 50 | - | - | - | - | - |
| Nitromethane | CH ₃ NO ₂ | - | Nitrometano | - | 50 | 50 | 0 | 20 | 20 | - | - |
| Nitrotoluene | C ₇ H ₇ NO ₂ | - | Nitrotoluene | - | 80 | 80 | - | nr | nr | - | - |
| Nitrous Oxide | N ₂ O | - | Nitroso ossido | - | nr | nr | - | - | - | - | - |
| O | | | | | | | | | | | |
| Octane | C ₈ H ₁₈ | - | Ottano | 60/L | R | R | - | R | R | - | - |
| Octene | C ₈ H ₁₆ | - | Otilene | - | R | R | - | - | - | - | - |
| Octyl alcohol | C ₈ H ₁₈ O | - | Alcol ottilico | - | - | - | - | 20/L | 20/L | - | - |
| Oleic Acid | C ₁₈ H ₃₄ O ₂ | 3% in water | Oleico acido | 80/L | R | R | 0 | 20/L | R | nr | L |
| Oleic Acid | C ₁₈ H ₃₄ O ₂ | - | Oleico acido | 80/L | R | R | 0 | 20/L | R | - | - |
| Oleum | H ₂ SO ₄ +10%SO ₃ | - | Oleum | L | nr | nr | 0 | nr | nr | - | - |
| Olive Oil | - | - | Olio di oliva | R | R | R | 0 | 20/L | 20/L | - | - |
| Orthophosphoric acid | H ₃ PO ₄ | - | Acido ortofosforico | - | - | - | - | L | L | - | - |
| Oxalic Acid | C ₂ H ₂ O ₄ x2H ₂ O | 10% in water | Ossalico acido | 60/L | 50 | 50 | 0 | R | R | - | - |
| Oxygen | O ₂ | - | Ossigeno | 60/L | R | R | 0 | L | L | R | R |
| Ozone | O ₃ | - | Ozono | 20/L | R | R | 0 | nr | 20/L | - | - |
| P | | | | | | | | | | | |
| Palm Oil | - | - | Olio di palma | R | 95 | R | 0 | 20 | 20 | - | - |
| Palmitic Acid | C ₁₆ H ₃₂ O ₂ | - | Palmitico acido | - | R | R | 0 | R | R | - | - |
| Paraffin | - | - | Paraffina | - | R | R | 0 | L | R | - | - |
| Paraffin oil | - | - | Olio di paraffina | 60 | R | R | 0 | L | R | - | - |
| Peanut Oil | - | - | Olio di arachidi | R | R | R | 0 | 20 | 20 | - | - |
| Perchloric Acid | HClO ₄ | 70% in water | Perclorico acido | - | 50 | 50 | - | 20 | 20 | - | - |
| Perchloric Acid | HClO ₄ | 10% in water | Perclorico acido | - | 95 | R | L | R | R | - | - |
| Perchloroethylene | C ₂ Cl ₄ | - | Percloroetilene | 20/L | R | R | 0 | nr | nr | - | - |
| Perchloromethyl Mercaptan | CCl ₄ S | - | Perclorometilmercaptano | - | 50 | 50 | - | - | - | - | - |
| Petrolatum | - | - | Petrolato | - | R | R | - | - | - | - | - |
| Petroleum | - | - | Petrolio | 60/L | R | R | 0 | L | L | - | - |
| Phenol | C ₆ H ₆ O | 3% in water | Fenolo | nr | 80 | 80 | 0 | 20/L | R | 20/L | L |

| SUBSTANCE | FORMULA | CONCENTRATION | SOSTANZA | PA11 - PA12 PA12 EHF _a PA MB-TEC™ | KYNAR® HD4000 | KYNAR® FLEX 2800 | PTFE - PFA FEP | L.D. PE | H.D. PE | PU ester | PU ether |
|-------------------------------|--|----------------------------|-------------------------------|--|------------------|---------------------|-------------------|---------|---------|----------|----------|
| Phenol | C ₆ H ₆ O | - | Fenolo | nr | 50 | 50 | 0 | 20/L | R | - | - |
| Phenyl Ether | C ₁₂ H ₁₀ O | - | Fenilico etere | - | 50 | 50 | - | - | - | - | - |
| Phenylhydrazine | C ₆ H ₈ N ₂ | - | Fenilidrazina | - | 50 | 50 | - | 20/L | 20/L | - | - |
| Phenylhydrazine Hydrochloride | C ₆ H ₈ N ₂ -HCl | Aqueous solution or solid | Fenilidrazina cloridrato | - | 50 | 50 | - | 20 | 20 | - | - |
| Phosphorus Trichloride | PCl ₃ | - | Fosforo triclورو | - | 95 | R | 0 | - | - | - | - |
| Phosphorus, Pentoxide | O ₁₀ P ₄ | - | Fosforo pentossido | - | 95 | R | - | - | - | - | - |
| Phosgene | CCl ₂ O | - | Fosgene | - | R | 80 | - | - | 20/L | - | - |
| Phosphate Diammonium | (NH ₄) ₂ HPO ₄ | - | Fosfato di diammonio | 60/L | - | - | - | - | - | - | - |
| Phosphoric Acid | H ₃ PO ₄ | 3 % in water | Fosforico acido | 50/L | R | R | 0 | R | R | nr | L |
| Phosphoric Acid | H ₃ PO ₄ | up to 50 % | Fosforico acido | 40/L | R | R | 0 | R | R | - | - |
| Phosphorous Red | P | - | Fosforoso rosso | - | 25 | 25 | - | - | - | - | - |
| Phosphorus Pentachloride | PCl ₅ | - | Fosforo pentacloruro | - | 95 | R | - | - | - | - | - |
| Phosphorus, Oxychloride | POCl ₃ | - | Fosforo ossiclورو | L | nr | nr | 0 | L | L | - | - |
| Phthalic Acid | C ₈ H ₆ O ₄ | - | Ftalico acido | - | 95 | R | - | R | R | - | - |
| Picric Acid | C ₆ H ₃ N ₃ O ₇ | up to 10 % | Picrico acido | 20/L | 25 | 25 | - | L | L | - | - |
| Polyvinyl Alcohol | (C ₂ H ₄ O) _x | - | Polivinilico alcool | - | R | R | - | - | - | - | - |
| Polyester resins | - | - | Resine poliesteri | - | - | - | - | 20/L | 20/L | - | - |
| Polyethylene Glycol | C ₂ nH ₄ n+2O _{n+1} | - | Polietilene glicole | - | 95 | R | - | - | - | - | - |
| Polyvinyl Acetate | (C ₄ H ₆ O ₂) _n | - | Polivinile acetato | - | R | R | - | - | - | - | - |
| Potassium | K | - | Potassio | - | nr | nr | - | - | - | - | - |
| Potassium Acetate | CH ₃ CO ₂ K | Aqueous solution or solid | Potassio acetato | - | R | R | - | R | R | - | - |
| Potassium Alum | KAl(SO ₄) ₂ | Aqueous solution or liquid | Potassio allume | - | R | R | - | - | - | - | - |
| Potassium Aluminium Chloride | - | - | Potassio alluminiocloruro | - | R | R | 0 | - | - | - | - |
| Potassium Aluminium sulfate | KAl(SO ₄) ₂ | - | Alluminio Solfato di potassio | R | R | R | - | R | R | - | - |
| Potassium Bicarbonate | KHCO ₃ | Aqueous solution or solid | Potassio bicarbonato | - | 95 | R | - | R | R | - | - |
| Potassium Bisulfate | KHSO ₄ | Aqueous solution or solid | Potassio bisolfato | - | R | R | - | R | R | - | - |
| Potassium Borate | K ₂ B ₄ O ₇ | Aqueous solution or solid | Potassio borato | - | R | R | - | R | R | - | - |
| Potassium Bromate | KBrO ₃ | Aqueous solution or solid | Potassio bromato | - | R | R | - | R | R | - | - |
| Potassium Bromide | KBr | Aqueous solution or solid | Potassio bromuro | 20 | R | R | - | R | R | - | - |
| Potassium Carbonate saturated | K ₂ CO ₃ | Aqueous solution or solid | Potassio carbonato saturato | - | R | R | 0 | R | R | - | - |
| Potassium Chloride | KCl | - | Potassio cloruro | 20/L | 95 | R | 0 | R | R | - | - |
| Potassium Chlorate | KClO ₃ | Aqueous solution or solid | Potassio clorato | - | R | R | - | R | R | - | - |
| Potassium Chromate | K ₂ CrO ₄ | Aqueous solution or solid | Potassio cromato | - | R | R | - | R | R | - | - |
| Potassium Cyanide | KCN | Aqueous solution or solid | Potassio cianuro | - | R | R | 0 | R | R | - | - |
| Potassium Dichromate | K ₂ Cr ₂ O ₇ | - | Potassio dicromato | 20/L | R | R | - | R | R | - | - |
| Potassium Ferricyanide | C ₆ N ₆ FeK ₃ | Aqueous solution or solid | Potassio ferricianuro | - | R | R | - | R | R | - | - |
| Potassium Ferrocyanide | C ₆ N ₆ FeK ₄ | Aqueous solution or solid | Potassio ferrocianuro | R | R | R | - | R | R | - | - |
| Potassium Fluoride | KF | Aqueous solution or solid | Potassio fluoruro | - | R | R | - | R | R | - | - |
| Potassium Hydroxide | KOH | > 50% in water | Potassio idrossido | nr | nr | nr | 0 | nr | nr | - | - |
| Potassium Hydroxide | KOH | 5 to 10 % in water | Potassio idrossido | 40/L | nr | nr | 0 | R | R | - | - |
| Potassium Hypochlorite | KClO | Aqueous solution | Potassio ipoclorito | - | 95 | R | - | 20/L | 20/L | - | - |
| Potassium Iodide | KI | Aqueous solution or solid | Potassio ioduro | 60 | R | R | 0 | R | R | - | - |
| Potassium Nitrate | KNO ₃ | Aqueous solution or solid | Potassio nitrato | 40/L | R | R | - | R | R | - | - |
| Potassium Perborate | - | - | Potassio Perborato | - | R | R | - | R | R | - | - |
| Potassium Perchlorate | KClO ₄ | - | Potassio Perclorato | - | 95 | R | - | R | R | - | - |
| Potassium Permanganate | KMnO ₄ | Aqueous solution or solid | Potassio Permanganato | nr | R | R | 0 | L | L | - | - |
| Potassium Persulfate | K ₂ S ₂ O ₈ | - | Potassio Persolfato | - | 50 | 50 | - | R | R | - | - |
| Potassium Sulfate | K ₂ SO ₄ | Aqueous solution or solid | Potassio solfato | R | R | R | 0 | R | R | - | - |
| Potassium Sulfide | K ₂ S | - | Potassio solfuro | - | R | R | - | R | R | - | - |
| Potassium Thiocyanate | KSCN | - | Tiocianato di potassio | - | - | - | - | R | R | - | - |
| Potassium Thiosulfate | K ₂ S ₂ O ₃ | - | Tiosolfato di potassio | - | - | - | - | R | R | - | - |
| Propane liquid | C ₃ H ₈ | - | Propano liquido | R | R | R | 0 | - | 20 | - | - |
| Propyl Acetate | C ₅ H ₁₀ O ₂ | - | Propile acetato | - | 40 | 25 | 0 | - | - | - | - |
| Propyl Alcohol | C ₃ H ₈ O | Aqueous solution or liquid | Propilico alcool | - | 65 | 65 | 0 | R | R | - | - |
| Propylamine | C ₃ H ₇ N | - | Propilamina | - | nr | nr | - | - | - | - | - |
| Propylene Dibromide | C ₃ H ₆ Br ₂ | - | Propilene dibromuro | - | 95 | R | - | - | - | - | - |
| Propylene Dichloride | C ₃ H ₆ Cl ₂ | - | Propilene didloruro | - | 95 | R | - | nr | nr | - | - |
| Propylene Glycol | C ₃ H ₈ O ₂ | Aqueous solution or liquid | Glicole propilenico | 40/L | 65 | 65 | - | R | R | - | - |
| Propylene Oxide | C ₃ H ₆ O | - | Propilene ossido | - | nr | nr | 0 | - | R | - | - |
| Pyridine | C ₅ H ₅ N | - | Piridina | 20/L | nr | nr | 0 | L | L | - | - |
| Pyrogallol | C ₆ H ₆ O ₃ | Aqueous solution or solid | Pirogallico acido | - | 50 | 50 | - | - | - | - | - |
| S | | | | | | | | | | | |
| Salicylaldehyde | C ₇ H ₆ O ₂ | - | Salicilaldeide | - | 50 | 50 | 0 | - | - | - | - |
| Salicylic Acid saturated | C ₇ H ₆ O ₃ | - | Salicilico acido saturato | 20 | 95 | R | 0 | R | R | - | - |
| Sea Water | - | - | Acqua di mare | R | R | R | 0 | R | R | L | R |
| Selenic Acid | H ₂ SeO ₄ | Aqueous solution or pure | Selenico acido | - | 65 | 65 | - | R | R | - | - |
| Sewage Water | - | - | Acque luride | - | R | R | 0 | - | - | - | - |
| Silicon Oil | - | - | Olio di silicone | R | R | R | 0 | R | R | - | - |
| Silicon Tetrachloride | SiCl ₄ | - | Silicio tetracloruro | - | 50 | 50 | - | R | R | - | - |

| SUBSTANCE | FORMULA | CONCENTRATION | SOSTANZA | PA11 - PA12 PA12 EHF ₅ - PA MB-Tec™ | KYNAR® HD4000 | KYNAR® FLEX 2800 | PTFE - PFA FEP | L.D. PE | H.D. PE | PU ester | PU ether |
|---------------------------|---|---------------------------|-------------------------|--|------------------|---------------------|-------------------|---------|---------|----------|----------|
| Silver Cyanide | AgCN | - | Argento cianuro | - | R | R | 0 | R | R | - | - |
| Silver Nitrate | AgNO ₃ | Aqueous solution or solid | Argento nitrato | - | R | R | 0 | R | R | - | - |
| Silver Sulfate | Ag ₂ SO ₄ | - | Argento solfato | - | R | R | - | - | - | - | - |
| Soda water | - | - | Soda | R | R | R | 0 | R | R | - | - |
| Sodium | Na | - | Sodio | - | nr | nr | - | - | - | - | - |
| Sodium (Amalgam) | - | - | Sodio amalgama di | - | nr | nr | - | - | - | - | - |
| Sodium Acetate | C ₂ H ₃ NaO ₂ | Aqueous solution or solid | Sodio acetato | 40/L | R | R | 0 | R | R | - | - |
| Sodium Antimonate | Na ₃ Sb | Aqueous solution or solid | Antimoniato di sodio | - | - | - | - | R | R | - | - |
| Sodium Benzoate | C ₇ H ₅ NaO ₂ | Aqueous solution or solid | Sodio benzoato | - | R | R | - | R | R | - | - |
| Sodium Bicarbonate | NaHCO ₃ | Aqueous solution or solid | Sodio bicarbonato | 60 | R | R | 0 | R | R | - | - |
| Sodium Bisulfate | NaHSO ₄ | 3% in water | Sodio bisolfato | 20 | R | R | 0 | R | R | nr | L |
| Sodium Bisulfate | NaHSO ₄ | Aqueous solution or solid | Sodio bisolfato | 20 | R | R | 0 | R | R | - | - |
| Sodium Bisulphite | NaHSO ₃ | Aqueous solution or solid | Sodio bisolfito | - | R | R | 0 | R | R | - | - |
| Sodium Bromate | NaBrO ₃ | Aqueous solution or solid | Sodio bromato | - | 95 | R | - | R | R | - | - |
| Sodium Bromide | NaBr | Aqueous solution or solid | Sodio bromuro | 20 | R | R | 0 | - | - | - | - |
| Sodium Carbonate | Na ₂ CO ₃ | Aqueous solution or solid | Sodio carbonato | 60/L | R | R | 0 | R | R | - | - |
| Sodium Chlorate | NaClO ₃ | Aqueous solution or solid | Sodio clorato | nr | R | R | 0 | R | R | - | - |
| Sodium Chloride | NaCl | Aqueous solution or solid | Sodio cloruro | R | - | - | 0 | R | R | - | - |
| Sodium Chlorite | NaClO ₂ | Aqueous solution or solid | Sodio clorito | nr | R | R | L | 20 | 20 | - | - |
| Sodium Chromate | Na ₂ CrO ₄ | Aqueous solution or solid | Sodio cromato | - | 95 | R | - | R | R | - | - |
| Sodium Cyanide | NaCN | Aqueous solution or solid | Sodio cianuro | - | R | R | 0 | R | R | - | - |
| Sodium Dichromate | Na ₂ Cr ₂ O ₇ | Aqueous solution or solid | Sodio dicromato | - | 95 | R | 0 | R | R | - | - |
| Sodium Dithionite | Na ₂ S ₂ O ₄ | Aqueous solution or solid | Sodio ditionito | - | 40 | 40 | - | - | - | - | - |
| Sodium Ferricyanide | C ₆ N ₆ FeNa ₃ | Aqueous solution or solid | Sodio ferricianuro | - | R | R | - | R | R | - | - |
| Sodium Ferrocyanide | C ₆ FeNa ₄ N ₆ | Aqueous solution or solid | Sodio ferrocianuro | - | R | R | - | R | R | - | - |
| Sodium Fluoride | NaF | Aqueous solution or solid | Sodio fluoruro | - | R | R | - | R | R | - | - |
| Sodium Fluorosilicate | F ₆ Na ₂ Si | - | Sodio fluosilicato | - | R | R | - | - | - | - | - |
| Sodium Hydrogen Phosphate | Na ₂ HPO ₄ | Aqueous solution or solid | Sodio idrogenofosfato | - | R | R | - | - | - | - | - |
| Sodium Hydroxide | NaOH | up to 3% in water | Sodio idrossido | 40/L | 25 | 50 | 0 | R | R | nr | L |
| Sodium Hydroxide | NaOH | greater than 50% in water | Sodio idrossido | nr | nr | nr | 0 | R | R | - | - |
| Sodium Hydroxide | NaOH | up to 10% in water | Sodio idrossido | 40/L | 25 | 50 | 0 | R | R | - | - |
| Sodium Hypochlorite | NaClO | up to 15% in water | Sodio ipoclorito | nr | 95 | R | 0 | 20/L | R | nr | nr |
| Sodium Iodide | NaI | Aqueous solution or solid | Sodio ioduro | - | R | R | 0 | R | R | - | - |
| Sodium Nitrate | NaNO ₃ | 3% in water | Sodio nitrato | R | R | R | 0 | R | R | L | L |
| Sodium Nitrate | NaNO ₃ | Aqueous solution or solid | Sodio nitrato | R | R | R | 0 | R | R | - | - |
| Sodium Nitrite | NaNO ₂ | Aqueous solution or solid | Sodio nitrito | nr | R | R | - | R | R | - | - |
| Sodium Palmitate | C ₁₆ H ₃₂ O ₂ | - | Sodio palmitato | - | R | R | - | - | - | - | - |
| Sodium Perchlorate | NaClO ₄ | Aqueous solution or solid | Sodio perclorato | - | R | R | - | R | R | - | - |
| Sodium Peroxide | Na ₂ O ₂ | - | Sodio perossido | - | 95 | R | 0 | 20/L | 20/L | - | - |
| Sodium Phosphate | Na ₃ PO ₄ | Aqueous solution or solid | Sodio fosfato | 20 | R | R | - | R | R | - | - |
| Sodium Sulfate | Na ₂ SO ₄ | - | Sodio solfuro | 60/L | - | R | 0 | R | R | - | - |
| Sodium Sulfide | Na ₂ S | 3% in water | Solfuro di sodio | 60/L | - | - | - | - | - | L | L |
| Sodium Sulfide | Na ₂ S | Concentrated or paste | Solfuro di sodio | 60/L | - | - | - | - | - | - | - |
| Sodium Thiocyanate | NaSCN | Aqueous solution or solid | Sodio tiocianato | - | R | R | - | - | - | - | - |
| Sodium Thiosulfate | Na ₂ S ₂ O ₃ | Aqueous solution or solid | Sodio tiosolfato | 20 | R | R | 0 | R | R | - | - |
| Soybean Oil | - | - | Olio di soia | R | R | R | - | L | R | - | - |
| Stannic Chloride | SnCl ₄ | Aqueous solution or solid | Stannico cloruro | - | R | R | - | R | R | - | - |
| Stannous Chloride | SnCl ₂ | - | Stannoso cloruro | - | R | R | - | R | R | - | - |
| Starch | - | - | Amido | 60 | R | R | - | R | R | - | - |
| Steam | H ₂ O | - | Vapore | nr | - | - | - | - | - | - | - |
| Stearic Acid | C ₁₈ H ₃₆ O ₂ | 3% in water | Stearico acido | R | R | R | 0 | - | - | nr | L |
| Stearic Acid | C ₁₈ H ₃₆ O ₂ | - | Stearico acido | 80/L | R | R | 0 | L | L | - | - |
| Stilbene | C ₁₄ H ₁₂ | - | Stilbene | - | 80 | 80 | - | - | - | - | - |
| Styrene | C ₈ H ₈ | - | Stirolo | 40 | 80 | 85 | 0 | 20/L | 20/L | - | - |
| Succinic Acid | C ₄ H ₆ O ₄ | - | Succinico acido | 60 | 65 | 65 | - | R | R | - | - |
| Sulphur | S ₈ | - | Zolfo | 40 | R | R | - | - | - | - | - |
| Sulphur Chloride | SCl | - | Zolfo cloruro | - | 25 | 25 | 0 | - | - | - | - |
| Sulphur Dichloride | SCL ₂ | - | Zolfo dicloruro | - | 25 | 25 | - | - | - | - | - |
| Sulphur Dioxide | SO ₂ | - | Zolfo biossido | 20/L | 80 | 80 | 0 | R | R | - | - |
| Sulphur Trioxide | SO ₃ | - | Triossido di zolfo | 20/L | nr | nr | - | nr | nr | - | - |
| Sulphuric Acid | H ₂ SO ₄ | 3% in water | Acido Solforico | 40/L | R | R | 0 | R | R | nr | L |
| Sulphuric Acid | H ₂ SO ₄ | 60-93% in water | Solforico acido | nr | 95 | R | L | 20/L | 20 | - | - |
| Sulphuric Acid | H ₂ SO ₄ | 93-98% in water | Solforico acido | nr | 50 | 65 | nr | 20/L | 20 | - | - |
| Sulphuric Acid | H ₂ SO ₄ | up to 60% in water | Solforico acido | nr | R | R | L | R | R | - | - |
| Sulphuric Acid | H ₂ SO ₄ | up to 10 % | Acido Solforico | 40/L | R | R | 0 | R | R | - | - |
| Sulphuric Acid Fuming | H ₂ SO ₄ | - | Solforico fumante acido | nr | nr | nr | nr | nr | nr | - | - |
| Sulfuryl Chloride | SO ₂ Cl ₂ | - | Solforile cloruro | nr | nr | nr | L | - | - | - | - |
| Sulfuryl Fluoride | SO ₂ F ₂ | - | Solforile fluoruro | nr | 25 | 25 | - | - | - | - | - |

| SUBSTANCE | FORMULA | CONCENTRATION | SOSTANZA | PA11 - PA12 PA12 EHF _a - PA MB-Tec™ | KYNAR® HD4000 | KYNAR® FLEX 2800 | PTFE - PFA FEP | L.D. PE | H.D. PE | PU ester | PU ether |
|-------------------------------|---|----------------------------|--------------------------|--|------------------|---------------------|-------------------|---------|---------|----------|----------|
| T | | | | | | | | | | | |
| Tall oil | - | - | Tallolio | - | R | R | - | - | - | - | - |
| Tallow | - | - | Sego | 80/L | R | R | 0 | L | L | - | - |
| Tannic Acid | C ₇₆ H ₅₂ O ₄₆ | - | Tannico acido | - | R | R | 0 | R | R | - | - |
| Tar | - | - | Catrame | - | R | R | - | - | - | - | - |
| Tartaric Acid | C ₄ H ₆ O ₆ | 10% in water | Tartarico acido | 80/L | R | R | 0 | R | R | - | - |
| Tetrabromoethane | C ₂ H ₂ Br ₄ | - | Tetrabromoetano | - | R | R | - | nr | nr | - | - |
| Tetrachloroethane | C ₂ H ₂ Cl ₄ | - | Tetracloroetano | - | R | R | 0 | nr | nr | - | - |
| Tetrachlorophenol | - | - | Tetraclorofenolo | nr | 65 | 65 | - | - | - | - | - |
| Tetraethyllead | C ₈ H ₂₀ Pb | - | Piombo tetraetile | 20 | R | R | - | - | - | - | - |
| Tetrahydrofuran | C ₄ H ₈ O | Aqueous solution or liquid | Tetraidrofurano | 60/L | nr | nr | L | nr | nr | - | - |
| Tetramethylammonium Hydroxide | C ₄ H ₁₃ NO | up to 10% in water | Tetrametilammonio | - | 65 | R | - | - | - | - | - |
| Tetramethylurea | - | - | Tetrametilurea | - | nr | nr | - | - | - | - | - |
| Thioglycol | - | - | Tioglicolico | - | 25 | 25 | 0 | - | - | - | - |
| Thioglycolic Acid | C ₂ H ₄ O ₂ S | - | Tioglicolico acido | - | 80 | 80 | 0 | R | R | - | - |
| Thionyl Chloride | SOCl ₂ | - | Tionile cloruro | nr | nr | nr | 0 | nr | nr | - | - |
| Thiophosphoryl Chloride | Cl ₃ PS | - | Tiofosforile cloruro | - | nr | nr | - | - | - | - | - |
| Thread Cutting Oils | - | - | Olio da taglio | - | R | R | - | - | - | - | - |
| Titanium Tetrachloride | TiCl ₄ | - | Titanio Tetracloruro | nr | 65 | 65 | - | nr | nr | - | - |
| Toluene | C ₇ H ₈ | - | Toluene | 60/L | 80 | 80 | 0 | nr | 20/L | - | - |
| Toluenesulfonyl Chloride | C ₇ H ₇ ClO ₂ S | - | Toluenosolfonile cloruro | - | 50 | 50 | - | - | - | - | - |
| Toluol | C ₇ H ₈ | - | Toluolo | - | ok | ok | 0 | - | - | - | - |
| Tomato Juice | - | - | Succo di pomodoro | R | R | R | 0 | R | R | - | - |
| Tributyl Phosphate | C ₁₂ H ₂₇ O ₄ P | - | Tributilfosfato | 80/L | 95 | R | L | 20 | R | - | - |
| Trichloroacetic Acid | C ₂ HCl ₃ O ₂ | 50 % in water pure | Tricloro acetico acido | - | 50 | 50 | 0 | R | R | - | - |
| Trichloroacetic Acid | C ₂ HCl ₃ O ₂ | up to 10% in water | Tricloro acetico acido | - | 95 | R | 0 | R | R | - | - |
| Trichlorobenzene | C ₆ H ₃ Cl ₃ | - | Triclorobenzene | - | 95 | R | 0 | nr | nr | - | - |
| Trichloroethane | C ₂ H ₃ Cl ₃ | - | Tricloroetano | 20/L | 65 | 65 | 0 | - | - | nr | nr |
| Trichloroethylene | C ₂ HCl ₃ | - | Tricloroetilene | 20/L | R | R | 0 | nr | nr | - | - |
| Trichlorophenol | C ₆ H ₄ OCl ₃ | - | Triclorofenolo | nr | 65 | 65 | - | - | - | - | - |
| Tricresil phosphate | C ₇ H ₁₅ NO ₂ | - | Tricresilfosfato | R | nr | nr | 0 | 20 | R | - | - |
| Triethanolamine | C ₆ H ₁₅ NO ₃ | 3% in water | Trietanolamina | - | - | - | 0 | - | - | nr | L |
| Triethanolamine | C ₆ H ₁₅ NO ₃ | Aqueous solution or liquid | Trietanolamina | - | 50 | 50 | 0 | - | - | - | - |
| Triethyl phosphate | C ₆ H ₁₅ O ₄ P | - | Trietilfosfato | - | nr | nr | 0 | - | - | - | - |
| Trifluoroacetic Acid | C ₂ HF ₃ O ₂ | 50% in water | Trifluoroacetico acido | - | 95 | R | 0 | - | - | - | - |
| Trifluoroacetic Acid | C ₂ HF ₃ O ₂ | - | Trifluoroacetico acido | - | 50 | R | 0 | - | - | - | - |
| Trimethyl Pentane | C ₈ H ₁₈ | - | Trimetil pentano | 60 | - | - | - | R | R | - | - |
| Trimethylamine | C ₃ H ₉ N | Aqueous solution or gas | Trimetilamina | - | 50 | 40 | 0 | - | - | - | - |
| Trisodium phosphate | Na ₃ PO ₄ | Solution sat. | Fosfato trisodico | R | - | - | - | R | R | - | - |
| Trisodium Phosphate | Na ₃ PO ₄ | - | Fosfato trisodico | R | - | - | - | - | - | - | - |
| Turpentine | - | - | Trementina | 60/L | R | R | 0 | nr | nr | - | - |
| U | | | | | | | | | | | |
| Urea | CH ₄ N ₂ O | 3% in water | Urea | R | R | R | 0 | R | R | nr | L |
| Urea | CH ₄ N ₂ O | Aqueous solution or solid | Urea | 80/L | R | R | 0 | R | R | - | - |
| Uric Acid | C ₅ H ₄ N ₄ O ₃ | - | Urico acido | 80/L | - | - | - | R | R | - | - |
| V | | | | | | | | | | | |
| Varnish | - | - | Vernice | - | R | R | - | - | - | - | - |
| Varsol | - | - | Varsol | - | R | R | - | - | - | - | - |
| Vegetable Oil | - | - | Olio vegetale | R | R | R | 0 | L | R | - | - |
| Vinegar | C ₂ H ₄ O ₂ | - | Aceto | L | R | R | 0 | R | R | - | - |
| Vinyl Acetate | C ₄ H ₆ O ₂ | - | Vinile acetato | - | R | R | - | L | R | - | - |
| Vinyl Chloride | C ₂ H ₃ Cl | - | Vinile cloruro | 20 | 95 | R | 0 | - | - | - | - |
| Vinylidene Chloride | C ₂ H ₂ Cl ₂ | - | Vinilidene cloruro | - | 95 | R | 0 | nr | nr | - | - |
| W | | | | | | | | | | | |
| Wasted Oil | - | - | Olio da taglio | - | - | ok | - | - | - | - | - |
| Water | H ₂ O | - | Acqua | Rb | - | - | 0 | - | - | L | R |
| Water distilled | - | - | Acqua distillata | Rb | R | R | 0 | R | R | - | - |
| Whiskey | - | - | Whiskey | - | R | R | 0 | 20 | 20 | - | - |
| Xilplo | - | - | Xilplo | - | - | - | - | - | - | - | - |
| Xylene | C ₈ H ₁₀ | - | Xilene | 60/L | 95 | R | 0 | nr | 20/L | - | - |
| Z | | | | | | | | | | | |
| Zinc Acetate | C ₄ H ₁₀ O ₅ Zn | Aqueous solution | Zinco acetato | - | R | R | - | - | - | - | - |
| Zinc Bromide | ZnBr ₂ | Aqueous solution or solid | Zinco bromuro | - | R | R | - | R | R | - | - |
| Zinc Chloride | ZnCl ₂ | Aqueous solution or solid | Zinco cloruro | 60/L | R | R | 0 | R | R | - | - |
| Zinc Nitrate | Zn(NO ₃) ₂ | Aqueous solution or solid | Zinco nitrato | - | R | R | - | - | - | - | - |
| Zinc Sulfate | ZnSO ₄ | Aqueous solution or solid | Zinco solfato | - | R | R | 0 | R | R | - | - |