



Decomposes proteins and lipids in organic tissues. Causes blindness upon contact with eyes.

NaOH dissolution in water is very exothermic. Do not store in Aluminum/glass containers.

[H290 – H314]

SODIUM HYDROXIDE

NaOH

4M ≈14%

Tech Grade

TECHNICAL DATA

Melting Point: 318°C
Molar mass: 39.9971 g/mol
Solubility: 111 g/100mL 20°C
Density: 2.13 g/cm³
EC: 215-185-5
CAS: 1310-73-2



Decomposes proteins and lipids in organic tissues. May cause blindness upon contact with eyes.

NaOH dissolution in water is very exothermic. Do not store in Aluminum/glass containers.

[H290 – H314]

SODIUM HYDROXIDE

NaOH

2M ≈7.5%

Tech Grade

TECHNICAL DATA

Melting Point: 318°C
Molar mass: 39.9971 g/mol
Solubility: 111 g/100mL 20°C
Density: 2.13 g/cm³
EC: 215-185-5
CAS: 1310-73-2



Decomposes proteins and lipids in organic tissues. May cause blindness upon contact with eyes.

NaOH dissolution in water is very exothermic. Do not store in Aluminum/glass containers.

[H290 – H314]

SODIUM HYDROXIDE

NaOH

1M ≈4%

Tech Grade

TECHNICAL DATA

Melting Point: 318°C
Molar mass: 39.9971 g/mol
Solubility: 111 g/100mL 20°C
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Decomposes proteins and lipids in organic tissues. May cause blindness upon contact with eyes.

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[H290 – H314]

SODIUM HYDROXIDE

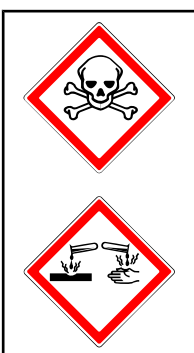
NaOH

Flakes 99.5%

Tech Grade

TECHNICAL DATA

Melting Point: 318°C
Molar mass: 39.9971 g/mol
Solubility: 111 g/100mL 20°C
Density: 2.13 g/cm³
EC: 215-185-5
CAS: 1310-73-2



Corrosive on metals, human tissue, damages the respiratory organs, eyes, skin, and intestines.

If mixed with oxidising agents chlorine gas is released.

[H280 – H314 – H331]

HYDROCHLORIC ACID

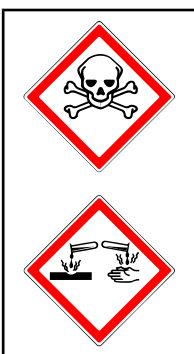
HCl

30-32% ≈8.5M

Tech Grade

TECHNICAL DATA

Molar mass: 36.465 g/mol
Solubility: 82.3 g/100mL 20°C
Density: 1.187 g/cm³
EC: 231-595-7
CAS: 7647-01-0



Corrosive on metals, human tissue, damages the respiratory organs, eyes, skin, and intestines.

If mixed with oxidising agents chlorine gas is released.

[H80 – H314 – H331]

HYDROCHLORIC ACID



HCl

2M ≈7%

Tech Grade

TECHNICAL DATA

Molar mass: 36.465 g/mol
Solubility: 82.3 g/100mL 20°C
Density: 1.187 g/cm³
EC: 231-595-7
CAS: 7647-01-0

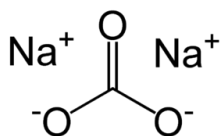
<div style="display: flex; flex-direction: column; align-items: center;">   </div> <p>Corrosive on metals, human tissue, damages the respiratory organs, eyes, skin, and intestines.</p> <p>If mixed with oxidising agents chlorine gas is released.</p>	<p>ACETIC ACID</p> <p>CH₃COOH</p> <p>6% ≈1M</p> <p>Tech Grade</p>
<p>[H280 – H314 – H331]</p>	<p>TECHNICAL DATA</p> <p>Melting Point: -114.22°C</p> <p>Molar mass: 36.465 g/mol</p> <p>Solubility: 82.3 g/100mL 20°C</p> <p>Density: 1.187 g/cm³</p> <p>EC: 231-595-7</p> <p>CAS: 7647-01-0</p>

<div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">GRAS</div> <p>A solution of 50g/1L has pH ≈8.6. Decomposes at 50°C to Na₂CO₃.</p>	<p>SODIUM HYDROGEN CARBONATE</p> <p>NaHCO₃</p> <p>Food Grade</p>
	<p>TECHNICAL DATA</p> <p>Decomposition: 50°C</p> <p>Molar mass: 84.007 g/mol</p> <p>Solubility: 96 g/L 20°C</p> <p>Density: 2.20 g/cm³</p> <p>EC: 205-633-8</p> <p>CAS: 144-55-8</p>

<div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">GRAS</div> <p>Do not mix with solid KmnO₄.</p>	<p>GLYCERIN</p> <p>C₃H₈O₃</p> <p>95%</p> <p>Food Grade</p>
	<p>TECHNICAL DATA</p> <p>Melting Point: 18°C</p> <p>Molar mass: 92.10 g/mol</p> <p>Solubility: Miscible 20°C</p> <p>Density: 1.26 g/cm³</p> <p>CAS: 56-81-5</p>



Causes eye and skin irritation.



A solution of 50g/1L has pH \approx 11.5.
Decomposes at 500°C to Na₂O + CO₂.

Insoluble in ethanol and acetone.

[H319]

SODIUM CARBONATE (Monohydr.) Na₂CO₃

Tech Grade – E500

TECHNICAL DATA

Decomposition: >400°C
Molar mass: 124.00 g/mol
Solubility: 215 g/L 20°C
Density: 2.25 g/cm³

CAS: 497-19-8



Irritant, dessiccates moist skin. If ingested, burns and ulceration can result in the mouth and the digerent organs.

Dissolves EXOTHERMICALLY

Soluble in acetone and acetic acid.

[H319 – H316 – H302]

CALCIUM CHLORIDE (Anhydr.) CaCl₂

Tech Grade – E509

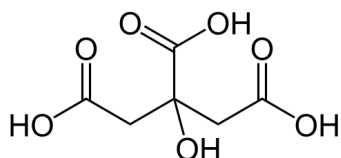
TECHNICAL DATA

Melting Point: 772°C
Molar mass: 110.98 g/mol
Solubility: 74.5 g/100mL 20°C
Density: 2.15 g/cm³

CAS: 10043-52-4



Causes eye and skin irritation.



Soluble in ethanol, ether, ethyl acetate.

Insoluble in chloroform and benzene.

[H318]



0.1M pH \approx 2.57
0.5M pH \approx 1.72
1M pH \approx 1.57


CITRIC ACID C₆H₈O₇


Food Grade – E330

TECHNICAL DATA

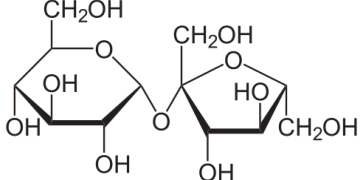
Melting Point: 156°C
Molar mass: 192.124 g/mol
Solubility: 59 g/100mL 20°C
Density: 1.665 g/cm³
EC: 201-069-1
CAS: 77-92-9

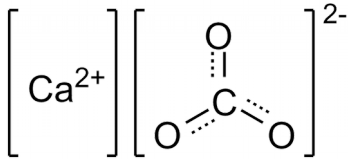
 	<p>Causes eye and skin irritation. Mildly toxic via oral ingestion.</p> <p>Soluble in methanol. Insoluble in ethanol.</p>	<h2>COPPER SULPHATE</h2> <p>(Pentahydr.) CuSO_4</p> <p>Fertilizer</p>
<p>[H302 – H315 – H319 – H410]</p>		<p>TECHNICAL DATA</p> <p>Decomposition: 110°C Molar mass: 249.685 g/mol Solubility: ≈236 g/L 20°C Density: 2.286 g/cm³ EC: 231-847-6 CAS: 7758-99-8</p>


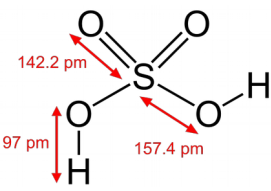
	<p>Can cause severe skin irritation, chemical burns, blindness, or lung damage.</p>	<h2>CALCIUM HYDROXIDE</h2> <p>Ca(OH)_2</p> <p>Tech Grade</p>
<p>Decomposes at ≈600°C → $\text{CaO} + \text{H}_2\text{O}$</p> <p>Soluble in glycerol and acids. Insoluble in ethanol.</p>		<p>TECHNICAL DATA</p> <p>Decomposition: 580°C Molar mass: 74.093 g/mol Solubility: 0.173 g/100mL 20°C Density: 2.211 g/cm³ EC: 215-137-3 CAS: 1305-62-0</p>
<p>[H318]</p>		


	<p>Irritant to mucosae, respiratory tract and eyes. The powder may irritate the skin. Not toxic by ingestion.</p> <p>Sulfur compounds are extremely dangerous, especially H_2S, SO_2, SO_3 and H_2SO_3.</p>	<h2>SULFUR</h2> <p>S_8</p> <p>Fertilizer Grade</p>
		<p>TECHNICAL DATA</p> <p>Melting Point: 115.21°C Molar mass: 32.066 g/mol Solubility: - Density: ≈2 g/cm³ CAS: 7704-34-9</p>


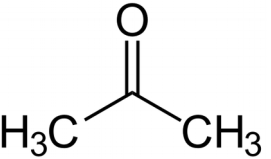
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">GRAS</div>	<p>SODIUM CHLORIDE</p> <p>NaCl</p> <p>Food Grade</p>
	<p>TECHNICAL DATA</p> <p>Melting Point: 801°C</p> <p>Molar mass: 58.44 g/mol</p> <p>Solubility: 358 g/L 20°C</p> <p>Density: 2.165 g/cm³</p> <p>EC: 231-598-3</p> <p>CAS: 7647-14-5</p>


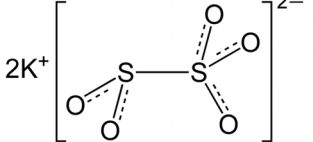
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">GRAS</div>  <p>The molecule is a disaccharide composed of glucose and fructose.</p>	<p>SUCROSE</p> <p>C₁₂H₂₂O₁₁</p> <p>Food Grade</p>
	<p>TECHNICAL DATA</p> <p>Decomposition: 186°C</p> <p>Molar mass: 342.30 g/mol</p> <p>Solubility: 2000 g/L 20°C</p> <p>Density: 1.587 g/cm³</p> <p>EC: 200-334-9</p> <p>CAS: 57-50-1</p>

<div style="border: 1px solid black; padding: 5px; width: fit-content; margin-bottom: 10px;">GRAS</div>  <p>Decomposes at ≈1350°C → CaO + H₂O</p>	<p>CALCIUM CARBONATE</p> <p>CaCO₃</p> <p>Limestone</p>
	<p>TECHNICAL DATA</p> <p>Decomposition: 1339°C</p> <p>Molar mass: 100.086 g/mol</p> <p>Solubility: 0.001 g/100mL 20°C</p> <p>Density: 2.711 g/cm³</p> <p>EC: 207-439-9</p> <p>CAS: 471-34-1</p>

	<p>Decomposes proteins, lipids and dehydrates organic materials. Causes fatal and irreversible damage to internal organs and eyes. Causes heat burns.</p> <p>EXTREMELY EXOTHERMIC UPON CONTACT WITH WATER.</p>	<p>SULFURIC ACID</p> <p>H₂SO₄</p> <p>1.5M ≈13%</p> <p>Tech Grade</p> 
<p>[H314 – H290]</p>		<p>TECHNICAL DATA</p> <p>Melting Point: 10°C</p> <p>Molar mass: 98.079 g/mol</p> <p>Solubility: Miscible</p> <p>Density: 1.84 g/cm³</p> <p>EC: 231-639-5</p> <p>CAS: 7664-93-9</p>


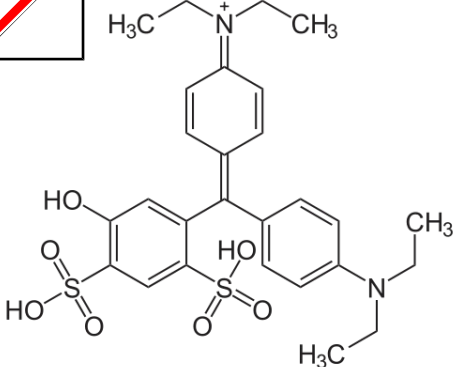
	<p>Volatile flammable compound.</p>	<p>ETHANOL</p> <p>CH₃CH₂OH</p> <p>95%</p> <p>Food Grade</p>
<p>[H225]</p>		<p>TECHNICAL DATA</p> <p>Melting Point: -114.22°C</p> <p>Molar mass: 46.07 g/mol</p> <p>Solubility: Complete</p> <p>Density: 0.789 g/cm³</p> <p>CAS: 64-17-5</p>

	<p>Extremely flammable. Can cause skin dryness. Generally regarded as safe.</p> <p>MELTS POLYESTER AND POLYSTYRENE. TRY USE IN A HIDDEN PART FIRST.</p>	<p>ACETONE</p> <p>(CH₃)₂CO</p> <p>>98%</p> <p>Tech Grade</p> 
<p>[H225 – H319 – H336 – EUH066]</p>		<p>TECHNICAL DATA</p> <p>Melting Point: -95°C</p> <p>Molar mass: 58.08 g/mol</p> <p>Solubility: Miscible</p> <p>Density: 0.791 g/cm³</p> <p>EC: 200-662-2</p> <p>CAS: 67-64-1</p>

	<p>Causes skin irritation, serious eye irritation, and may cause respiratory irritation.</p> <p>Decomposes at 190°C $K_2S_2O_5(s) \rightarrow K_2SO_3(s) + SO_2(g)$</p> <p>Reacts with acids releasing toxic gases.</p>	<p>POTASSIUM METABISULFITE</p> <p>$K_2S_2O_5$</p> <p>Food Grade – E224</p>
<p>[H318 – H335 EUH031]</p>		<p>TECHNICAL DATA</p> <p>Decomposition: 190°C Molar mass: 222.32 g/mol Solubility: 450 g/L 20°C Density: 0.789 g/cm³</p> <p>CAS: 16731-55-8</p>

<p>BLUE PATENT V</p> <p>Food Grade – E131</p>
<p>TECHNICAL DATA</p> <p>Molar mass: 582.66 g/mol CAS: 20262-76-4</p>

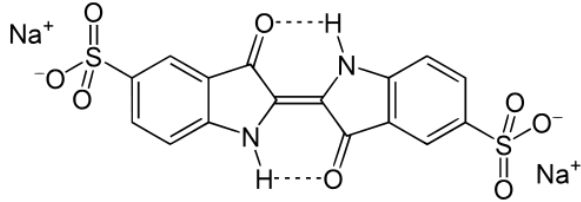
<p>BLUE PATENT V</p> <p>Food Grade – E131</p>
<p>TECHNICAL DATA</p> <p>Molar mass: 582.66 g/mol CAS: 20262-76-4</p>

	<p>Can cause allergic reactions if ingested.</p>	<p>BLUE PATENT V</p> <p>$C_{27}H_{31}N_2NaO_7S_2$</p> <p>Food Grade – E131</p>
	<p>TECHNICAL DATA</p> <p>Melting Point: --- Molar mass: 582.66 g/mol Solubility: --- Density: ---</p> <p>CAS: 20262-76-4</p>	



Harmful to the respiratory tract if inhaled. It is also an irritant to the skin and eyes.

pH indicator:
Blue <11.4, Yellow >13.0



INDIGO CARMINE



Food Grade – E132

TECHNICAL DATA

Melting Point: >300°C
Molar mass: 466.36 g/mol
Solubility: 10 g/L 25°C
Density: ---

CAS: 20262-76-4



Toxic if heated to decomposition or ingested. It's probably the less toxic lead compound.



Also called Galena.



[H302 – H332 –
360Df – H373 –
H410]

LEAD SULFIDE

PbS

Battery

TECHNICAL DATA

Melting point: 1118°C
Molar mass: 239.30 g/mol
Solubility: 2.6×10^{-11} kg/L
Density: 7.60 g/cm³
CAS: 1314-87-0



May cause cancer and genetic mutations. Deadly if inhaled. Toxic for the environment and the reproduction.



Insoluble in bases;
soluble in acids.



[H350 – H341 –
H361 – H330 –
H372 – H410]

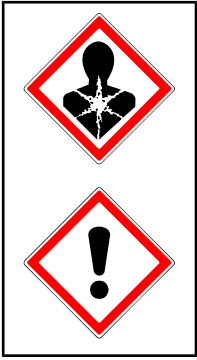
CADMIUM OXIDE


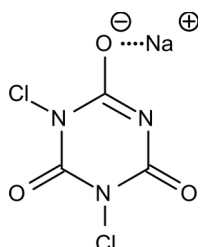
CdO

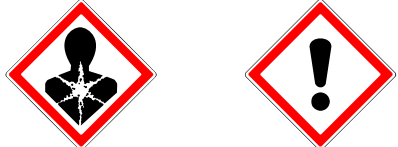
Battery


TECHNICAL DATA

Melting point: 1426°C
Molar mass: 128.40 g/mol
Solubility: -
Density: 6.95 g/cm³
CAS: 1306-19-0

	<p>May cause cancer and genetic mutations. Unknown compound.</p>	<p>NICKEL OXIDE HYDROXIDE NiOOH Battery</p>
<p>[H350i – H372 – H317 – H413]</p>	<p>TECHNICAL DATA</p> <p>Melting point: - Molar mass: 91.7 g/mol Solubility: - Density: - CAS: -</p>	

	<p>Irritant and dangerous for the environment. Releases Cl₂ upon contact with acids.</p> 	<p>SODIUM DICHLOROISOCYANURATE C₃Cl₂N₃NaO₃ Tech Grade</p>
<p>[H272 – H319 – H335 – H400 – H410 – H302]</p>	<p>TECHNICAL DATA</p> <p>Melting point: 225°C Molar mass: 219.95 g/mol Solubility: 22.7 g/100mL 20°C Density: ≈0.7 g/cm³ CAS: 2893-78-9</p>	

<p>28</p>	<p>58.69</p>
<p>Ni</p>	
<p>TECHNICAL DATA</p> <p>Melting point: 1455°C CAS: 7440-02-0</p>  <p>[H351 – H372 – H317 – H412]</p>	

<p>82</p>	<p>207.2</p>
<p>Pb</p>	
<p>TECHNICAL DATA</p> <p>Melting point: 327.46°C CAS: 7439-92-1</p>  <p>[H360 – H332 – H302 – H373 – H410]</p>	

13

26.98

Al

TECHNICAL DATA

Melting point: 660.32°C
CAS: 7429-90-5



[H228 – H261]

3

6.94

Li

TECHNICAL DATA

Melting point: 180.54°C
CAS: 7439-93-2



[H260 – H314 – EUH014]



Irritant and dangerous
for the environment.
Releases Cl₂ upon
contact with acids.

[H272 – H319 –
H335 – H400 –
H410 – H302]

DICHLOROISOCYANURIC ACID

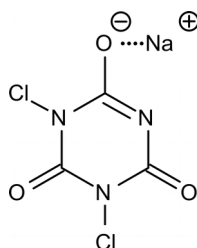
C₃HCl₂N₃O₃
Tech Grade

TECHNICAL DATA

Melting point: 225°C
Molar mass: 219.95 g/mol
Solubility: 22.7 g/100mL 20°C
Density: ≈0.7 g/cm³
CAS: ?



Irritant and dangerous
for the environment.
Releases Cl₂ upon
contact with acids.



[H272 – H319 –
H335 – H400 –
H410 – H302]

SODIUM DICHLOROISOCYANURATE

C₃Cl₂N₃NaO₃
Tech Grade

TECHNICAL DATA

Melting point: 225°C
Molar mass: 219.95 g/mol
Solubility: 22.7 g/100mL 20°C
Density: ≈0.7 g/cm³
CAS: 2893-78-9

INDIGO CARMINE

Food Grade – E132

TECHNICAL DATA

Molar mass: 466.36 g/mol

CAS: 860-22-0



COMPOSITION:

Maltodextrin, gum arabic,
E160a(ii) (β -carotene),
sunflower oil,
E307 (α -tocopherol).

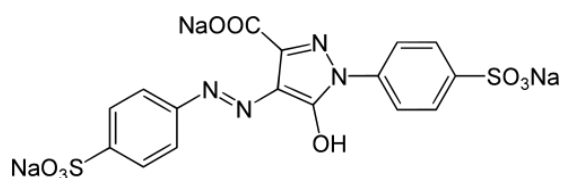
β -CAROTENE YELLOW

Food Grade – E160a(ii)



Harmful to the respiratory tract if inhaled. It is also an irritant to the skin and eyes.

pH indicator:
Blue <11.4, Yellow >13.0



INDIGO CARMINE

$C_{16}H_8N_2Na_2O_8S_2$

Food Grade – E132

TECHNICAL DATA


Melting Point: >300°C


Molar mass: 466.36 g/mol


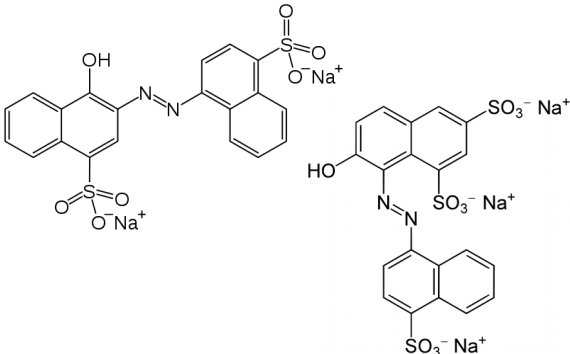
Solubility: 10 g/L 25°C

Density: ---

CAS: 20262-76-4

 <p>Irritant.</p> <p>Soluble in ethanol, slightly in ether and glycerol.</p>	<p>COPPER ACETATE</p> <p>$\text{Cu}(\text{CH}_3\text{COO})_2$</p> <p>Tech Grade</p>
<p>[H302 – H318 – H410]</p>	<p>TECHNICAL DATA</p> <p>Melting Point: 115°C</p> <p>Molar mass: 199.65 g/mol</p> <p>Solubility: ≈200 g/L 20°C</p> <p>Density: 1.882 g/cm³</p> <p>CAS: 6046-93-1</p>

 <p>COMPOSITION:</p> <p>E102 (Tartrazine), E131 (Blue Patent V).</p>	<p>MINT GREEN</p> <p>Food Grade – E102/E131</p>

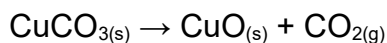
 <p>COMPOSITION:</p> <p>E122 (Azorubine), E124 (Ponceau 4R).</p> 	<p>STRAWBERRY RED</p> <p>Food Grade – E122/E124</p>



Can be irritant.

Is a mixture of CuCO_3
and $\text{Cu}(\text{OH})_2$.

Decomposes at 290°C



[H302 – H315 – H319 – H335]

COPPER CARBONATE



Tech Grade

TECHNICAL DATA

Melting Point: 200°C

Molar mass: 123.55 g/mol

Solubility: insoluble

Density: 3.9 g/cm^3

CAS: 1184-64-1



Can be irritant. Avoid
frequent overexposure.

Ethanol: 2 g/100 mL

Acetone: 1.31 g/100 mL

POTASSIUM IODIDE



Analysis Grade

TECHNICAL DATA

Melting Point: 681°C

Molar mass: 166.0028 g/mol

Solubility: 140 g/100mL 20°C

Density: 3.123 g/cm^3

CAS: 7681-11-0



Can be irritant.

Is a mixture of CuCO_3
and $\text{Cu}(\text{OH})_2$.

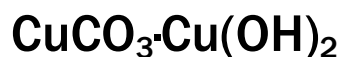
Decomposes at 290°C



[H302 – H315 – H319 – H335]

BASIC COPPER

CARBONATE



Tech Grade

TECHNICAL DATA

Melting Point: 200°C


Molar mass: 123.55 g/mol


Solubility: insoluble

Density: 3.9 g/cm^3

CAS: 1184-64-1

<p>GRAS</p>	<p>COMPOSITION:</p> <p>Cane sugar (sucrose), Molasses (3.5–6.5%).</p>	<p align="center">BROWN SUGAR CRYSTALS</p> <p align="center">Food Grade</p>

	<p>Irritant and dangerous for the environment. Releases Cl₂ upon contact with acids.</p> <chem>ClN1C(=O)N(Cl)C(=O)N1[O-].[Na+]</chem>	<p align="center">SODIUM DICHLORO(ISO) CYANURATE</p> <p align="center">(Dihydrate) NaC₃N₃O₃Cl₂</p> <p align="center">Tech Grade</p>
<p>[H272 – H319 – H335 – H400 – H410 – H302]</p>	<p>TECHNICAL DATA</p> <p>Melting point: 225°C Molar mass: 219.95 g/mol Solubility: 22.7 g/100mL 20°C Density: ≈0.7 g/cm³ CAS: 2893-78-9</p>	

	<p>Irritant to eyes and skin.</p> <chem>OS(=O)(=O)[O-].[Na+]</chem>	<p align="center">SODIUM BISULFATE</p> <p align="center">(Monohydr.) NaHSO₄</p> <p align="center">Tech Grade – E514(ii)</p>
<p>Insoluble in NH₃. Decomposes in ethanol and at 315°C</p> <p>2NaHSO₄ → Na₂S₂O₇ + H₂O</p> <p>1M pH <1</p>	<p>TECHNICAL DATA</p> <p>Decomposition: 315°C Molar mass: 138.07 g/mol Solubility: 67 g/100mL 20°C Density: 1.8 g/cm³ CAS: 10034-88-5</p>	
<p>[H315 – H318]</p>		



Can be irritant to the eyes.

Insoluble in ethanol, soluble in glycerol.

Chemically very stable and unreactive.
In solution has pH=7

SODIUM SULPHATE

(Decahydr.) Na_2SO_4
Tech Grade

TECHNICAL DATA

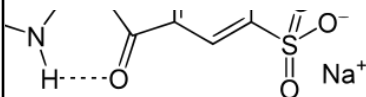
Melting Point: 32.38°C
Molar mass: 322.20 g/mol
Solubility: 44g/100mL 20°C
Density: 1.464 g/cm³

CAS: 7727-73-3



Unknown compound.
Assume same risk of NaDCCA.

Irritant and dangerous for the environment.
Releases Cl₂ upon contact with acids.



COPPER DICHLORO(ISO) CYANURATE

$\text{Na}_2[\text{Cu}(\text{C}_3\text{N}_3\text{O}_3\text{Cl}_2)_4]$
Tech Grade

TECHNICAL DATA

Molar mass: 219.95 g/mol
Solubility: insoluble

CAS: na - see

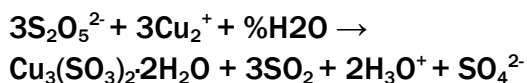
[H272 – H319 –
H335 – H400 –
H410 – H302]



Unknown compound.
Contains both Cu(I) and Cu(II).

Also written $\text{CuSO}_3\text{Cu}_2\text{SO}_3\cdot 2\text{H}_2\text{O}$

Production:



Chevreul's salt

(Dihydrate) $\text{Cu}_3(\text{SO}_3)_2$
Tech Grade

TECHNICAL DATA

Molar mass: 386.8 g/mol
Solubility: insoluble

CAS: na



Can be irritant. Avoid frequent overexposure. Oxidiser.

Slightly soluble in ethanol

Soluble in glycerol, ammonia

[H272]

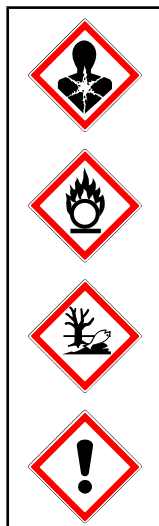
POTASSIUM NITRATE

KNO₃

Fertilizer Grade – E252

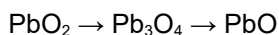
TECHNICAL DATA

Melting Point: 334 °C
Molar mass: 101.1032 g/mol
Solubility: 316 g/L 20°C
Density: 2.109 g/cm³
CAS: 7757-79-1



Being a strong oxidant, lead dioxide is a poison when ingested. Symptoms include abdominal pain and spasms, nausea, vomiting and headache. Contact with skin or eyes results in local irritation and pain.

Decomposes at 375°C and 600°C according to:



[H272 – H360 – H302+H332 – H410]

LEAD (IV) OXIDE

PbO₂

Battery

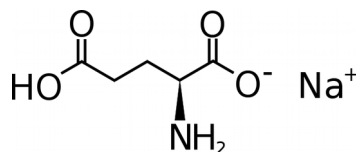
TECHNICAL DATA

Decomposition: 290 °C
Molar mass: 239.19 g/mol
Solubility: insoluble
Density: 9.38 g/cm³
CAS: 1309-60-0

GRAS

It is the sodium salt of Glutamic Acid (Glu), one of the most abundant non-essential amino acids.

Almost insoluble in common organic solvents.



MONOSODIUM GLUTAMATE

NaC₅NO₄H₈

Food Grade – E621

TECHNICAL DATA

Melting Point: 232 °C
Molar mass: 169.111 g/mol
Solubility: 74 g/100mL 20°C
Density: ≈1 g/cm³
CAS: 142-47-2

Hoshizuna no Hama Star Sand

Foraminifers Tests

Iriomote-jima, Yaeyama Islands,
Okinawa Prefecture, Japan □□ □□ □□ □□ □□ □□ □□

TECHNICAL DATA

Quantity: 50g

Composition: CaCO_3

30

65.38

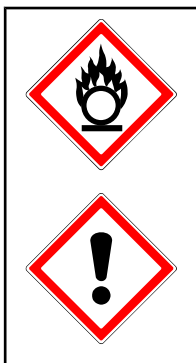
Zn

TECHNICAL DATA

Melting point: 419.53°C

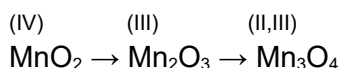
CAS: 7440-66-6

Metallic Zn is harmless, but Zn(I) and Zn(II) compounds are toxic.



Oxidiser. Irritant if ingested.

Decomposes at 535°C and at 1000°C



[272 – 302+332]

MANGANESE (IV) DIOXIDE MnO_2 Battery

TECHNICAL DATA

Decomposition: 535°C


Molar mass: 86.936 g/mol


Solubility: insoluble

Density: 5.026 g/cm^3

CAS: 1313-13-9

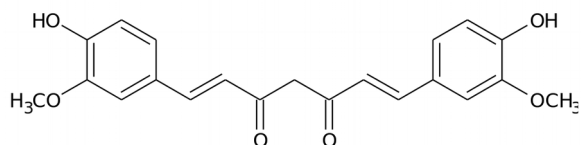
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">GRAS</div> <p>Decomposes at 240 and 280°C</p> <p>$(\text{NH}_4)_2\text{SO}_4 \rightarrow \text{NH}_4\text{HSO}_4 \rightarrow \text{NH}_3 + \text{SO}_2 + \text{N}_2 + \text{H}_2\text{O}$</p> <p>Insoluble in acetone, ethanol, ether.</p> <p>0.1M pH ≈5.5</p>	<p>AMMONIUM SULPHATE</p> <p>$(\text{NH}_4)_2\text{SO}_4$</p> <p>Industrial Grade – E517</p>
	<p>TECHNICAL DATA</p> <p>Decomposition: 235-280 °C</p> <p>Molar mass: 132.14 g/mol</p> <p>Solubility: 74.4 g/100mL 20°C</p> <p>Density: 1.769 g/cm³</p> <p>CAS: 7783-20-2</p>

<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">  </div> <p>Harmful if ingested. Causes serious eye irritation.</p> <p>Decomposes at 340°C</p> <p>$\text{NH}_4\text{Cl} \rightarrow \text{NH}_3 + \text{HCl}$</p> <p>Soluble in acetone, ammonia, ethanol. Insoluble in diethyl ether and ethyl acetate.</p>	<p>AMMONIUM CHLORIDE</p> <p>NH_4Cl</p> <p>Tech Grade – E510</p>
<p>[H303 – H319]</p>	<p>TECHNICAL DATA</p> <p>Decomposition: 338 °C</p> <p>Molar mass: 53.49 g/mol</p> <p>Solubility: 391.8 g/L 20°C</p> <p>Density: 1.527 g/cm³</p> <p>CAS: 12125-02-9</p>

<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;">  </div> <p>Can be irritant to the eyes.</p> <p>Insoluble in ethanol, acetone, soluble in glycerol.</p> <p>Chemically very stable. In solution has pH=7</p>	<p>SODIUM SULPHATE</p> <p>(Decahydr.) Na_2SO_4</p> <p>Tech Grade</p>
	<p>TECHNICAL DATA</p> <p>Melting Point: 32.38°C</p> <p>Molar mass: 322.20 g/mol</p> <p>Solubility: 44g/100mL 20°C</p> <p>Density: 1.464 g/cm³</p> <p>CAS: 7727-73-3</p>

**COMPOSITION:**

Curcuma longa rhizome powder, Curcuminoids ($\approx 7\%$) of which Curcumin ($\approx 3\%$).



[H315 – H319 – H335]

TURMERIC POWDER

Food Grade

12

24.30

Mg

TECHNICAL DATA

Purity: 99.95%
Melting point: 649.85°C
CAS: 7439-95-4

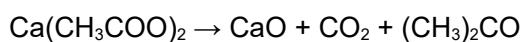


[H228 – H251 – H261]



Causes serious eye irritation. May cause skin irritation.

Decomposes at 160°C yielding acetone



Insoluble in acetone, ethanol.

[H315 – H319 – H335]

CALCIUM ACETATE

(Monohydr.) $\text{Ca}(\text{CH}_3\text{COO})_2$
Tech Grade – E263

TECHNICAL DATA

Decomposition: 160 °C
Molar mass: 158.17 g/mol
Solubility: 34.7 g/100 mL 20°C
Density: 1.509 g/cm³

CAS: 5743-26-0

47

107.86

Ag

TECHNICAL DATA

Purity: 1000%
 Melting point: 961.78°C
 CAS: 7440-22-4



Elemental Ag is GRAS but Ag(II) compounds are toxic and can cause chronic pathologies, severe internal organ damage or death.



Irritant to eyes and skin.

Insoluble in NH₃.
 Decomposes in ethanol and at 315°C



1M pH <1

[H315 – H318]

SODIUM BISULFATE

(Anhydrous) NaHSO₄

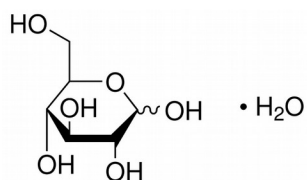
Tech Grade – E514(ii)

TECHNICAL DATA

Decomposition: 315°C
 Molar mass: 138.07 g/mol
 Solubility: 67 g/100mL 20°C
 Density: 1.8 g/cm³

CAS: 7681-38-1

GRAS



Sparingly soluble in methanol and ethanol.

D-GLUCOSE
(DXTROSE Monohydrate)C₆H₁₂O₆·H₂O

Food Grade

TECHNICAL DATA

Melting point: 146-150°C
 Molar mass: 198.17 g/mol
 Solubility: 90 g/100mL 25°C
 Density: 1.54 g/cm³

CAS: 14431-43-7

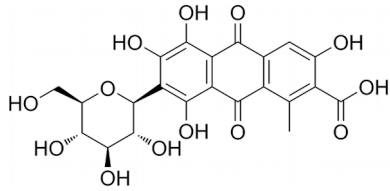
<div data-bbox="225 136 421 315" style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center;">GRAS</p> </div> <p>COMPOSITION:</p> <p>G S</p>	<p>GUM ARABIC</p> <p>(Vachellia Acacia seyal)</p> <p>Food Grade – E414</p>

<p>GUM ARABIC</p> <p>(Vachellia Acacia seyal)</p> <p>Food Grade – E414</p>
<div data-bbox="826 1397 1023 1576" style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center;">GRAS</p> </div> <p>COMPOSITION:</p> <p>Gum arabic (Vachellia Acacia seyal gum).</p>



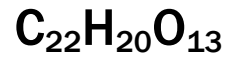
COMPOSITION:

Maltodextrin,
E120 (i) (Dactylopius coccus Extr.).



COCHINEAL RED

(Carmine Red, Carminic acid Al salt)



Food Grade – E120(i)

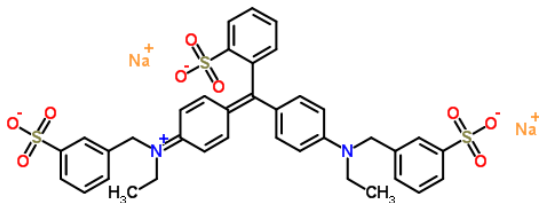
TECHNICAL DATA

Decomposition: 120-136°C
Molar mass: 492.38 g/mol
Solubility: soluble
CAS: 1260-17-9



COMPOSITION:

Maltodextrin,
E133 (Blue FCF Disodium salt).



BRILLIANT BLUE FCF



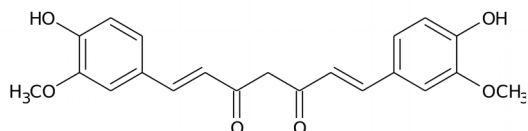
Food Grade – E133

TECHNICAL DATA

Decomposition: 120-136°C
Molar mass: 792.85 g/mol
Solubility: soluble
CAS: 3844-45-9

Turmeric Extract

Tech Grade – E100



TECHNICAL DATA:

28g Turmeric (Curcuma longa),
150mL white alcohol (20-25%
Propanol, water, parfume).

Est. Curcumin in Turmeric: ≈3.14%

Est. Curcumin in extract: ≈0.586g

[H315 – H319 – H335]



COMPOSITION:

E102 (Tartrazine),
E124 (Ponceau 4R),
E110 (Sunset Y. FCF).

EGG YELLOW

Food Grade -
E102/E110/E124



COMPOSITION:

E132 (Indigotine),
E110 (Sunset Yellow FCF),
E151 (Brilliant Black BN),
E104 (Quinoline Yellow WS),
E102 (Tartrazine),
E122 (Azorubine).

ABSOLUTE BLACK

Food Grade -
E132/E110/E151
E104/E102/E122

GRAS

Mixture of stearic (C18) and
palmitic (C16) acid.

Saponification index:
208.0 mgKOH/g

C12: Lauric acid $\text{CH}_3(\text{CH}_2)_{10}\text{COOH}$ max. 1%
C14: Myristic acid $\text{CH}_3(\text{CH}_2)_{12}\text{COOH}$ max. 2%
C16: Palmitic acid $\text{CH}_3(\text{CH}_2)_{14}\text{COOH}$ 42-49%
C18-0: Stearic acid $\text{CH}_3(\text{CH}_2)_{16}\text{COOH}$ 50-55%
C18-1: Arachidic acid $\text{CH}_3(\text{CH}_2)_{14}\text{COOH}$ max. 1%

Impurities chart available.

Vegetal Stearin

C16,18 fatty acids



(palmitic, stearic)


Tech Grade



TECHNICAL DATA


Melting Point: 54/65/72.5°C
Molar mass: 891.48 g/mol
Solubility: Insoluble
Density: 0.86 g/cm³ 80°C


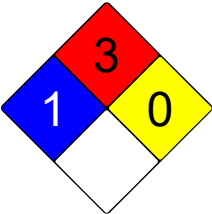
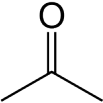
CAS: 555-43-1

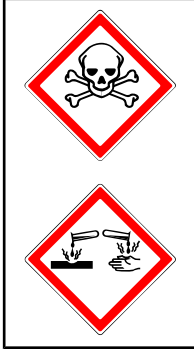
<div style="display: flex; flex-direction: column; align-items: center;">   </div> <p>Decomposes proteins and lipids in organic tissues. May cause blindness upon contact with eyes.</p> <p>KOH dissolution in water is exothermic. Do not store in Aluminum/glass containers.</p> <p>Impurities chart available.</p>	<h2>POTASSIUM HYDROXIDE</h2> <h3>KOH</h3> <p>Flakes >90%</p> <p>Tech Grade – E525</p>
<p>[H290 – H302 – H314]</p>	<p>TECHNICAL DATA</p> <p>Melting Point: 360°C</p> <p>Molar mass: 56.11 g/mol</p> <p>Solubility: 113 g/100mL 20°C</p> <p>Density: 2.044 g/cm³</p> <p>EC: 215-181-3</p> <p>CAS: 1310-58-3</p>

<div style="display: flex; flex-direction: column; align-items: center;">  </div> <p>May be irritant.</p> <p>Chelates Ca²⁺ ions and is used as an anticoagulant.</p> <p>In 85mL of distilled water dissolve: 1.32g of sodium citrate; 0.48g of citric acid; 1.47g of dextrose. Add distilled water to 100mL; Filter sterilize through 0.2um filter. Use 0.25mL of solution for 1mL of blood.</p>	<h2>TRISODIUM CITRATE</h2> <p>(Dihydrate) Na₃(C₆H₅O₇)</p> <p>99.88% – E331(iii)</p>
	<p>TECHNICAL DATA</p> <p>Melting Point: >300°C</p> <p>Molar mass: 294.10 g/mol</p> <p>Solubility: 77 g/100mL 20°C</p> <p>Density: 1.7 g/cm³</p> <p>CAS: 6132-04-3</p>

<div style="display: flex; flex-direction: column; align-items: center;">   </div> <p>Can be irritant to the respiratory tract. Irritant for the eyes and skin.</p> <p>Impurities chart available.</p> <div style="text-align: center;"> $\begin{array}{c} +\text{Na} \quad \text{O} \quad \text{O} \quad \text{Na}^+ \\ \quad \\ \text{O} \quad \text{Si} \\ \\ \text{O} \end{array}$ </div>	<h2>SODIUM SILICATE</h2> <p>(Anhydrous) Na₂SiO₃</p> <p>97% – E550</p>
<p>[H314 – H335]</p>	<p>TECHNICAL DATA</p> <p>Melting Point: 1088°C</p> <p>Molar mass: 122.06 g/mol</p> <p>Solubility: 22.2 g/100mL 25°C</p> <p>Density: 1.15 g/cm³</p> <p>CAS: 6834-92-0</p>

	<p>Also called Borax and sodium tetraborate. May cause intestinal distress, skin and respiratory irritation.</p> <p>If C≥8.5% may damage fertility and the unborn child Cat.1B. If C≥10% is irritant for the eyes Cat.2A.</p> <p>Impurities chart available.</p>	<h1>SODIUM BORATE</h1> <p>(Decahydr.) $\text{Na}_2\text{B}_4\text{O}_7$ 99.9% – E285</p>
<p>[H314 – H335]</p>	<p>TECHNICAL DATA</p> <p>Melting Point: 743°C Molar mass: 381.38 g/mol Solubility: 51.4 g/100mL 25°C Density: 1.73 g/cm³</p> <p>CAS: 1303-96-4</p>	

	<h1>ACETONE</h1> <p>$(\text{CH}_3)_2\text{CO}$ >98% Tech Grade</p> 
<p>[H225 – H319 – H336 – EUH066]</p>	<p>TECHNICAL DATA</p>  <p>Melting Point: -95°C Boiling Point: 57°C Molar mass: 58.08 g/mol Solubility: Miscible Density: 0.791 g/cm³ CAS: 67-64-1</p>

	<p>Corrosive on metals, human tissue, damages the respiratory organs, eyes, skin, and intestines.</p> <p>If mixed with oxidising agents (e.g. KMnO_4) chlorine gas is released.</p>	<h1>HYDROCHLORIC ACID</h1> <p>HCl 30-32% ≈8.5M Industrial Grade</p>
<p>[H280 – H314 – H331]</p>	<p>TECHNICAL DATA</p> <p>Melting Point: -114.22°C Molar mass: 36.465 g/mol Solubility: 82.3 g/100mL 20°C Density: 1.187 g/cm³ EC: 231-595-7 CAS: 7647-01-0</p>	

GRAS

Do not breathe dust and avoid contact with eyes.

Also called hydrated aluminium silicate.

Decomposes at 600°C to metakaolin;
 $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4 \rightarrow \text{Al}_2\text{Si}_2\text{O}_7 + 2 \text{H}_2\text{O}$

At 950°C to an aluminium-silicon spinel;
 $2 \text{Al}_2\text{Si}_2\text{O}_7 \rightarrow \text{Si}_3\text{Al}_4\text{O}_{12} + \text{SiO}_2$

And over 1050°C to mullite and cristobalite.
 $3 \text{Si}_3\text{Al}_4\text{O}_{12} \rightarrow 2 \text{Al}_6\text{Si}_2\text{O}_{13} + 5 \text{SiO}_2$

Impurities chart available.

Kaolin

$\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$
Cosmetic Grade – E559

TECHNICAL DATA

Category: Phyllosilicates
Crystal system: Triclinic
Decomposition: 550-600°C
Molar mass: 258.16 g/mol
Density: 2.58 g/cm³
CAS: 1332-58-7

POTASSIUM HYDR.

KOH

Flakes >90%

Industrial Grade – E525

TECHNICAL DATA

Melting Point: 360°C
Molar mass: 56.11 g/mol
Solubility: 113 g/100mL 20°C
Density: 2.044 g/cm³
EC: 215-181-3
CAS: 1310-58-3






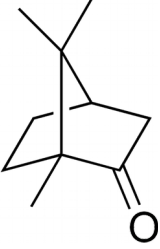
Decomposes proteins and lipids in organic tissues.
Causes blindness upon contact with eyes.





KOH dissolution in water is exothermic.
Do not store in aluminum or glass containers.

Impurities chart available.

[H290 – H302 – H314]

  	<p>Flammable. Irritant if inhaled and toxic if ingested.</p> <p>Burns decomposing into: $2 \text{C}_{10}\text{H}_{16}\text{O} + 27 \text{O}_2 \rightarrow 20 \text{CO}_2 + 16 \text{H}_2\text{O}$</p> <p>Solubility in: Acetone: ~2.5 kg/1L Ethanol: ~1.0 kg/1L Diethyl ether: ~2.0 kg/1L Chloroform: ~1.0 kg/1L</p>	 <p>Camphor (Bornan-2-one) $\text{C}_{10}\text{H}_{16}\text{O}$ Industrial Grade</p>
	<p>[H228 – H302 – H330 – H315 – H319 – H335 – H370 – H413]</p>	<p>TECHNICAL DATA</p> <p>Melting Point: 175-177°C Molar mass: 152.23 g/mol Solubility: 0.12 g/100mL 20°C Density: 0.990 g/cm³ EC: 200-945-0 CAS: 76-22-2</p>

<p>3</p> <p>6.94</p> <p>Li</p>
<p>TECHNICAL DATA</p> <p>Melting point: 180.54°C CAS: 7439-93-2</p>
<div style="display: flex; justify-content: space-around;">   </div> <p>[H260 – H314 – EUH014]</p>

12

24.30

Mg

TECHNICAL DATA

Purity: 99.95%
Melting point: 649.85°C
CAS: 7439-95-4



[H228 – H251 – H261]

12

24.30

Mg

TECHNICAL DATA

Purity: 99.95%
Melting point: 649.85°C
CAS: 7439-95-4



[H228 – H251 – H261]

12

24.30

Mg

TECHNICAL DATA

Purity: 99.95%
Melting point: 649.85°C
CAS: 7439-95-4



[H228 – H251 – H261]

12

24.30

Mg

TECHNICAL DATA

Purity: 99.95%
Melting point: 649.85°C
CAS: 7439-95-4



[H228 – H251 – H261]

Paper Chromatography Solvent A

COMPOSITION:

50% Distilled Water,
50% Acetone (>98%).



Flammable and irritant.

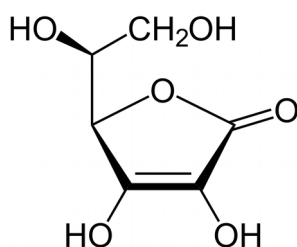


[H225 – H319 –
H336 – EUH066]

GRAS

Doses of more than 1g/day may cause abdominal pain, nausea, diarrhea and esophageal ulcers.

LD₅₀: 11.9 g/kg (oral, rat)



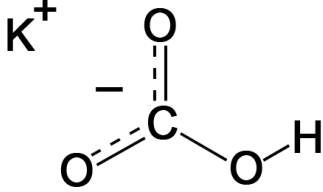
L-ASCORBIC ACID (Vitamin C) – C₆H₈O₆




99.8%

Food Grade – E300

TECHNICAL DATA

Decomposition: 190°C
Molar mass: 176.12 g/mol
Solubility: 33.0 g/100mL 20°C
Density: 1.65 g/cm³
EC: 200-066-2
CAS: 50-81-7

<div style="border: 1px solid black; padding: 5px; width: fit-content;">GRAS</div> <p>GRAS Impurities chart available.</p> <p>LD₅₀: >2000 mg/kg (rat, oral)</p> <div style="text-align: center;">  </div>	<h1>POTASSIUM BICARBONATE</h1> <p>KHCO₃ – DAB – E501(ii)</p>
	<p>TECHNICAL DATA</p> <p>Decomposition: 292°C Molar mass: 100.115 g/mol Solubility: 33.7 g/100mL 20°C Density: 2.17 g/cm³ EC: 206-059-0 CAS: 298-14-6</p>

<div style="display: flex; flex-direction: column; align-items: center;">    </div> <p>Irritant and dangerous for the environment. Releases Cl₂ upon contact with acids. Assume same risk as NaDCC and DCCA.</p> <p>Soluble in acetone, chlorocarbons and acetonitrile.</p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>[H272 – H319 – H335 – H400 – H410 – H302]</p> </div>	<h1>TRICHLORO ISOCYANURIC ACID</h1> <p>C₃Cl₃N₃O₃ Tech Grade</p>
	<p>TECHNICAL DATA</p> <p>Melting point: 246°C Molar mass: 232.41 g/mol Solubility: 0.2 g/100mL 20°C Density: 2.19 g/cm³ CAS: 87-90-1</p>

<h1>CuNaDCC</h1> <p>Na₂[Cu(C₃N₃O₃Cl₂)₄]</p>
<p>AVVERTENZE</p> <p><u>Non compatibile con acidi</u> Irritante</p>

Ossido di Alluminio


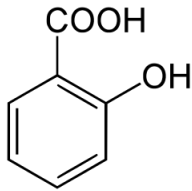
Allumina


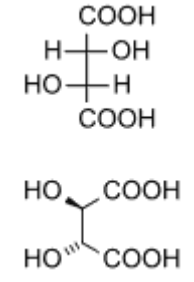
Al_2O_3

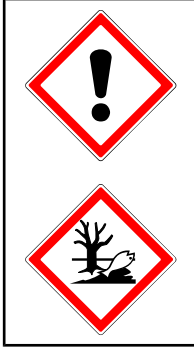
SPECIFICHE

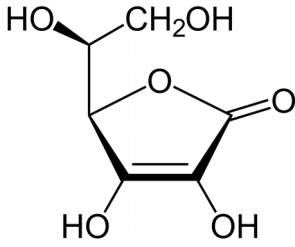
Fe₂O₃ stim. 0.5%


pH ≈6.0

	<p>Acetone: 39.6 g/100g (23 °C) Water: 1.24 g/L (0 °C) 2.48 g/L (25 °C) 4.14 g/L (40 °C) 17.41 g/L (75 °C) 77.79 g/L (100 °C)</p> <p>Methanol: 40.67 g/100g (-3 °C) 62.48 g/100g (21 °C)</p>	 <p>Salicylic Acid (2-hydroxybenzoic acid) C₇H₆O₃</p>
<p>[H302 – H318]</p>	<p>TECHNICAL DATA</p> <p>Melting Point: 158.6 °C Sublimation point: 76 °C Molar mass: 138.12 g/mol Solubility: 2.48 g/L 25 °C 77.79 g/L 100 °C</p> <p>Density: 1.443 g/cm³ CAS: 69-72-7</p>	

	<p>May cause moderate skin and severe eye irritation.</p> <p>Do not breathe dust.</p> <p>LD₅₀: 7.5g/kg (human, oral)</p>	<p>L(+)-TARTARIC ACID C₄H₆O₄ Food Grade – E334</p>
	<p>TECHNICAL DATA</p> <p>Melting point: 171-174 °C Molar mass: 150.087 g/mol Solubility: 133.0 g/100mL 20 °C Density: 1.76 g/cm³ EC: 200-066-2 CAS: 526-83-0</p>	
<p>[H319]</p>		

	<p>Irritant and toxic. Very toxic for aquatic environments.</p> <p>Methanol: 68 g/100 mL (15 °C) Ethanol: 53 g/100 mL (15 °C)</p> <p>Soluble in acetone</p>	<p>COPPER CHLORIDE (Dihydrate) CuCl₂ Industrial grade</p>
<p>[H302 – H315 – H319 – H410]</p>	<p>TECHNICAL DATA</p> <p>Dehydration: 100 °C Melting point: 498 °C Molar mass: 170.48 g/mol Solubility: 75.7 g/100mL 25 °C Density: 2.51 g/cm³ CAS: 10125-13-0</p>	

<p>GRAS</p>	<p>Doses of more than 1g/day may cause abdominal pain, nausea, diarrhea and esophageal ulcers.</p> <p>LD₅₀: 11.9 g/kg (oral, rat)</p>	<p>L-ASCORBIC ACID (Vitamin C) – C₆H₈O₆ 99.8% Food Grade – E300</p>
		<p>TECHNICAL DATA</p> <p>Decomposition: 190 °C Molar mass: 176.12 g/mol Solubility: 33.0 g/100mL 20 °C Density: 1.65 g/cm³ EC: 200-066-2 CAS: 50-81-7</p>

<p>Highly toxic by inhalation and ingestion; may cause damage to the unborn child; probably carcinogenic to humans; highly toxic to aquatic environments; causes severe long-term adverse and chronic cumulative effects.</p>	<p>LEAD (II) NITRATE Pb(NO₃)₂ Industrial grade</p>
<p>Nitric acid: insoluble Ethanol: 0.04 g/100 mL Methanol: 1.3 g/100 mL</p> <p>A 20% aqueous solution has pH 3.0-4.0</p>	<p>TECHNICAL DATA</p> <p>Decomposition: 270 °C Molar mass: 331.209 g/mol Solubility: 52 g/100 mL 20 °C Density: 4.53 g/cm³</p> <p>CAS: 10099-74-8</p>
	
<p>[H272 – H360 – H332 – H302 – H318 – H373 – H410]</p>	

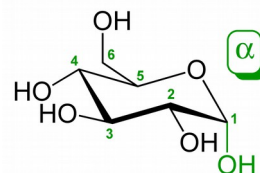
<p>GRAS</p>	<p>Mixture of stearic (C18) and palmitic (C16) acid.</p> <p>Saponification index: 208.0 mgKOH/g</p>	<p>Vegetal Stearin C16,18 fatty acids (palmitic, stearic) Tech Grade</p>
<p>C12: Lauric acid CH₃(CH₂)₁₀COOH max. 1% C14: Myristic acid CH₃(CH₂)₁₂COOH max. 2% C16: Palmitic acid CH₃(CH₂)₁₄COOH 42-49% C18-0: Stearic acid CH₃(CH₂)₁₆COOH 50-55% C18-1: Arachidic acid CH₃(CH₂)₁₄COOH max. 1%</p> <p>Impurities chart available.</p>		<p>TECHNICAL DATA</p> <p>Melting Point: 54/65/72.5 °C Molar mass: 891.48 g/mol Solubility: Insoluble Density: 0.86 g/cm³ 80 °C</p> <p>CAS: 555-43-1</p>

α -D-GLUCOSE
 (Dextrose monohydrate,
 α -D-glucopyranose)
 $C_6H_{12}O_6$ - Food Grade

TECHNICAL DATA

Melting point: 146-150°C
 Molar mass: 198.17 g/mol
 Solubility: 90 g/100mL 25°C
 Density: 1.54 g/cm³
 CAS: 14431-43-7

GRAS

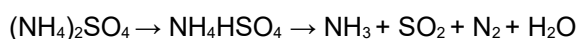


Sparingly soluble in methanol and ethanol.

Is a reducing monosaccharide.

GRAS

Decomposes at 240 and 280°C



Insoluble in acetone, ethanol, ether.

0.1M pH ≈ 5.5

AMMONIUM SULPHATE
 $(NH_4)_2SO_4$
 Industrial Grade – E517

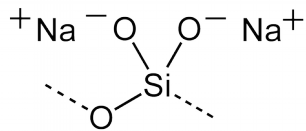
TECHNICAL DATA

Decomposition: 235-280 °C
 Molar mass: 132.14 g/mol
 Solubility: 74.4 g/100mL 20°C
 Density: 1.769 g/cm³
 CAS: 7783-20-2



Can be irritant to the respiratory tract.
Irritant to the eyes and skin.

Impurities chart available.



SODIUM SILICATE

(Anhydrous) Na_2SiO_3

97% – E550

TECHNICAL DATA

Melting Point: 1088°C

Molar mass: 122.06 g/mol

Solubility: 22.2 g/100mL 25°C

Density: 1.15 g/cm³

CAS: 6834-92-0

[H314 – H335]



ACETONE IMPURO
(CH₃)₂CO

Utilizzato per lavaggio sali

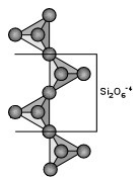
EC: 200-662-2

CAS: 67-64-1

[H225 – H319 – H336 – EUH066]

Augite

Pirosseno Inosilicato (Igneo Mafico)



Monte Vesuvio (1'000-1'200 m), Napoli.

TECHNICAL DATA

Sistema Cristallino: Monoclinico prismatico
Durezza (Mohs): 5.5-6.0
Composizione: (Ca,Na) (Mg,Fe,Al,Ti) (Si,Al)₂O₆
Lavati e sabbiati con HCl, H₂O₂, HNO₃, HF (dil).

Fatal in contact with skin or if ingested; carcinogenic Cat. Carc.-Mut. 1B; may cause hereditble genetic damage, may impair fertility and harm the unborn child; highly toxic to aquatic environments with long-asting effect; causes damage to organs through prolonged or repeated exposure; may cause chronic allergic reactions; corrosive.

Keep away from **organics**, reductants, acids, bases.



[H272 – H301 – H310+H330 – H314 – H317 – H334 – H340 – H350 – H360FD – H372 – H410 – H411]

**POTASSIUM
DICHROMATE(VI)**
K₂Cr₂O₇ 0.1N (1/60M)

Lab Grade – NORMEX

TECHNICAL DATA

Molar mass: 294.185 g/mol

Density: 1.000 g/cm³

LD₅₀: 14-25 mg/kg (oral, rat)

CAS: 7778-50-9