

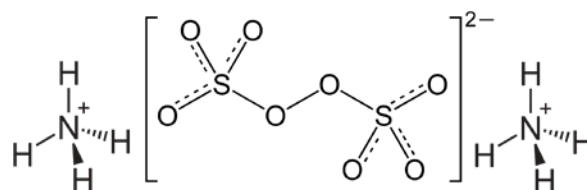


FT-306098

Ammonium Persulfate (APS)

Product Description

Name:	Ammonium Persulfate, Biotech grade																			
CAS:	7727-54-0																			
Syn:	APS, Ammonium Peroxydisulfate, Peroxydisulfuric Acid Diammonium Salt, Diammonium peroxydisulfate																			
Catalog Number:	UP306098, 25g																			
	306099, 100g																			
	30609A, 1kg																			
Structure:	$(\text{NH}_4)_2\text{S}_2\text{O}_8$																			
Molecular Weight:	MW= 228.19																			
Properties:	<table border="1"> <thead> <tr> <th colspan="2">Typical values</th> </tr> </thead> <tbody> <tr> <td>Chloride & Chlorate</td> <td>0.001%</td> </tr> <tr> <td>Heavy Metals (as Pb)</td> <td>0.005%</td> </tr> <tr> <td>Insolubles</td> <td>0.005%</td> </tr> <tr> <td>Iron</td> <td>0.001%</td> </tr> <tr> <td>Manganese</td> <td>0.00005%</td> </tr> <tr> <td>Purity</td> <td>98.0%</td> </tr> <tr> <td>Residue on Ignition</td> <td>0.05%</td> </tr> <tr> <td>Titration Free Acid</td> <td>0.04meq/g</td> </tr> </tbody> </table>		Typical values		Chloride & Chlorate	0.001%	Heavy Metals (as Pb)	0.005%	Insolubles	0.005%	Iron	0.001%	Manganese	0.00005%	Purity	98.0%	Residue on Ignition	0.05%	Titration Free Acid	0.04meq/g
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Storage:	Room temperature ⁽²⁾																			



Application

Used to initiate free radicals for polymerisation reactions. For gel electrophoresis preparation, it is combined to tetramethylethylenediamine (TEMED) to catalyse the polymerisation of acrylamide in polyacrylamide gel.

Technical information

Ammonium Persulfate (APS) forms oxygen free radicals in aqueous solution by a base-catalyzed mechanism, such with tertiary amines TEMED (N,N,N',N'-tetramethylethylenediamine #15413D) or DMAPN (3-dimethylaminopropionitrile #12094). The free radicals will cause the polymerization of acrylamide and bis-acrylamide to form a gel matrix as used in size-separation electrophoresis. APS is also used in other applications such as in protein-protein interactions.

Regulatory information



(SGH03)

Comburent
Comburant



(SGH07)

Toxic, Irritating, sensibilizing, narcotic
Toxique, irritant, sensibilisant, narcotique



(SGH08)

Sensitizing, mutagenic, cancerigenic, reprotoxic
Sensibilisant, mutagène, cancérogène, reprotoxique

- Hazard Statements: H272 / H302+H312 / H315 / H317 / H319 / H334 / H335

Xi R36/37/38 Irritant for eyes and respiratory path

- Precautionary Statements: P220 / P280 / P302+P352 / P304+P340 / P305+P351+P338 / P310

- Signal word: Danger

- Personal Protective Equipment: Eyeshields, Faceshields, full-face particle respirator type N100 (US), Gloves, respirator cartridge type N100 (US), type P1 (EN143) respirator filter, type P3 (EN 143) respirator cartridges

- RIDADR UN 1444 5.1 / PGIII

WGK Germany 1

RTECS SE0350000

Related / associated products and documents

PH-BC001

a Laboratory Biochemicals

Electrophoresis products: ex. Temed [#15413D](#) ; Acrylamide solutions [#86489B](#)

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

For any information, please ask: Uptima / Interchim Hotline: +33 4 70 03 73 06

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