# AGS Acid

**Safety (MSDS) data**

**MATERIAL DATA SAFETY SHEET**

A G S = (Adipic - Glutaric - Succinic mixture) acid

Non-hazardous for air, sea and road freight.

## CONTACT

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## Disclaimer for Specifications / Safety Information

Every effort is made to ensure that technical specifications are accurate. However, technical specifications included herein should be used as a guideline only and not construed as commitment by any company within or supported by the VALETIME Group. All specifications are subject to change without notice.

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## GENERAL

**P-AGS "PURIFIED MIXTURE OF ADIPIC/GLUTARIC/SUCCINIC ACIDS"**

<table>
<thead>
<tr>
<th>CAS</th>
<th>see below</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular formula</td>
<td>HOOC(CH₂)nCOOH (n=2,3,4)</td>
</tr>
<tr>
<td>Molecular weights</td>
<td>118.1/132.1/146.1</td>
</tr>
</tbody>
</table>

## COMPONENTS

### ADIPIC ACID

<table>
<thead>
<tr>
<th>CAS</th>
<th>124-04-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS</td>
<td>204-673-3</td>
</tr>
<tr>
<td>Synonyms</td>
<td>hexanedioic acid; 1,4-butanedicarboxylic acid</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>COOH(CH₂)₃COOH</td>
</tr>
<tr>
<td>Percentage, %</td>
<td>20 - 40</td>
</tr>
</tbody>
</table>

### GLUTARIC ACID

<table>
<thead>
<tr>
<th>CAS</th>
<th>110-94-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS</td>
<td>203-817-2</td>
</tr>
<tr>
<td>Synonyms</td>
<td>n-pyrotartaric acid; pentanedioic acid</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>HOOC(CH₂)₃COOH</td>
</tr>
<tr>
<td>Percentage, %</td>
<td>32 - 50</td>
</tr>
</tbody>
</table>

### SUCCINIC ACID

<table>
<thead>
<tr>
<th>CAS</th>
<th>110-15-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS</td>
<td>203-740-4</td>
</tr>
<tr>
<td>Synonyms</td>
<td>butanedioic acid</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>CO₂H(CH₂)₂CO₂H</td>
</tr>
<tr>
<td>Percentage, %</td>
<td>20 - 36</td>
</tr>
</tbody>
</table>

The A G S acid is a by-product, thus its composition may vary. Typical composition is listed on a dry basis. AGS acid available to Valetime has been further processed / refined to remove heavy metals and is marketed in this purified form as "P-AGS".

## STABILITY

**STABLE**

Substances to be avoided include strong bases and strong oxidising agents.

**COMBUSTIBLE**
AGS Acid

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TOXICOLOGY

May act as an Irritant. Xi (irritating)
Corrosive, causes burns.
Harmful by inhalation, ingestion and through skin absorption.
Wash after handling.
Eye contact may cause serious damage.

PERSONAL PROTECTION

Safety glasses
The usual precautions for the handling of chemicals must be observed.
Adequate ventilation.

TRANSPORT INFORMATION

Non-hazardous for air, sea and road freight. N.O.S.

Transportation information:

National:  
Road ADR  Not mentioned
Railway FS Enc. 7  Not mentioned
Sea  MMM Classified as non-hazardous

International:  
Road ADR  Not mentioned
Railway RID  Not mentioned
Sea IMO  Not mentioned
Air IATA  Not mentioned

HANDLING AND STORAGE

Handle in accordance with good industrial and safety practice.

ACCIDENTAL RELEASE

Handle in accordance with good industrial and safety practice.

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