FlexaTrac™ - AGS

ADIPIC, GLUTARIC AND SUCCINIC ACIDS
KEY CHARACTERISTICS

- Good source of dibasic acids
- 5 carbon acid
- Flake is approximately 70% glutaric acid
- High quality flake manufactured in the U.S.
FlexaTrac™-AGS is a blend of adipic, glutaric and succinic dibasic acids. Available as a water-soluble liquid (FlexaTrac-AGS-100) or as high quality flakes (FlexaTrac-AGS-200), FlexaTrac-AGS is ideal for a wide range of applications including: flue gas desulfurization, industrial intermediates, monomers, cleaners and corrosion inhibitors.

**APPLICATIONS**

**FlexaTrac-AGS-100**
- Buffer in lime or limestone flue gas desulfurization (FGD) systems
  - Small quantities (0.02-0.05 wt. %) greatly enhance performance of FGD systems
  - Permits burning of less high-sulfur coal
  - Reduces retrofit CAPEX
  - Improves gypsum recovery
  - Reduces SO2 emissions
  - Reduces limestone usage
  - Improves desulfurization system reliability
  - Improves filter cake dewatering
  - Low system plugging
  - Reduces scaling

**FlexaTrac-AGS-200**
- Polyurethane, polyester resin intermediate for manufacturing plastics such as:
  - Shoe soles
  - Synthetic leather
  - Plasticizers
  - Elastomers
  - Solvent precursor
  - Auto dish cleaners
  - Water treatment
  - Scale remover
- Polyols for coatings, inks and adhesives

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th></th>
<th>FlexaTrac-AGS-100 liquid</th>
<th>FlexaTrac-AGS-200 flake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Succinic acid, wt. %</td>
<td>6 – 11</td>
<td>15 – 25</td>
</tr>
<tr>
<td>Glutaric acid, wt. %</td>
<td>24 – 38</td>
<td>59 – 73</td>
</tr>
<tr>
<td>Adipic acid, wt. %</td>
<td>6 – 17</td>
<td>10 – 20</td>
</tr>
<tr>
<td>Total dibasic acids, wt. %</td>
<td>46 – 52</td>
<td>99.5 min</td>
</tr>
</tbody>
</table>

**PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>FlexaTrac-AGS-100 liquid</th>
<th>FlexaTrac-AGS-200 flake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Yellow-green liquid</td>
<td>White to off-white flake</td>
</tr>
<tr>
<td>Odor</td>
<td>Slightly pungent</td>
<td>None</td>
</tr>
<tr>
<td>Solubility</td>
<td>Completely soluble above 40°C</td>
<td>Completely soluble above 90°C</td>
</tr>
<tr>
<td>Nitric acid, wt. %</td>
<td>&lt;2.0</td>
<td>&lt;0.03</td>
</tr>
<tr>
<td>Initial boiling point</td>
<td>116°C</td>
<td>n/a</td>
</tr>
<tr>
<td>Crystallization point</td>
<td>40°C</td>
<td>n/a</td>
</tr>
<tr>
<td>Viscosity, cps</td>
<td>4 @ 65°C</td>
<td>n/a</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.12</td>
<td>n/a</td>
</tr>
<tr>
<td>Bulk density, g/cm³</td>
<td>n/a</td>
<td>0.6 – 0.8</td>
</tr>
<tr>
<td>Metal content (Fe/V/Cu), ppm</td>
<td>n/a</td>
<td>&lt;6.0</td>
</tr>
</tbody>
</table>
About Ascend

Ascend Performance Materials is a global leader in the production of high-quality chemicals, fibers and plastics. As the world’s largest fully integrated manufacturer of nylon 6,6 resin, our manufacturing processes are vertically integrated, ensuring the highest level of quality and economies of scale. Ascend’s specialty chemicals and blends of acids, amines and esters are used in a variety of applications and industries. We offer customized solutions through formulated products and superior technical support.

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