Food Grade CO2 Suppliers and Producers

EPA is providing information on food grade CO2 suppliers and producers in the event that water utilities need to identify alternative companies, pursuant to Section 1442(a)(2) of the Safe Drinking Water Act. EPA does not endorse companies or specific products, absent any statutory authority to do so, and recommends that utilities contact individual companies for additional information.

Food Grade CO2 Suppliers

There are relatively few CO2 suppliers, and they are listed below. Many of them operate in multiple states. Facilities that produce food grade CO2 often sell that CO2 to a supplier that can process (e.g., purify, compress) and deliver the CO2 to water utilities and other customers.

<table>
<thead>
<tr>
<th>Food Grade CO2 Suppliers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Liquide/AirGas</td>
</tr>
<tr>
<td><a href="http://www.airliquide.com/group/contact-us">www.airliquide.com/group/contact-us</a></td>
</tr>
<tr>
<td>Messer</td>
</tr>
<tr>
<td><a href="http://www.messergroup.com/contact">www.messergroup.com/contact</a></td>
</tr>
<tr>
<td>Air Products</td>
</tr>
<tr>
<td><a href="http://www.airproducts.com/contact-us.aspx">www.airproducts.com/contact-us.aspx</a></td>
</tr>
<tr>
<td>POET</td>
</tr>
<tr>
<td><a href="http://www.poet.com/contact">www.poet.com/contact</a></td>
</tr>
<tr>
<td>Linde/Praxair</td>
</tr>
<tr>
<td><a href="https://www.praxair.com/contact-us">https://www.praxair.com/contact-us</a></td>
</tr>
<tr>
<td>Reliant</td>
</tr>
<tr>
<td><a href="http://www.reliantmetro.com/contact.aspx">www.reliantmetro.com/contact.aspx</a></td>
</tr>
<tr>
<td>Matheson</td>
</tr>
<tr>
<td><a href="http://www.mathesongas.com/contactus">www.mathesongas.com/contactus</a></td>
</tr>
<tr>
<td>Carbonic Systems</td>
</tr>
<tr>
<td><a href="http://www.carbonic.com/carbonic_web_005.htm">www.carbonic.com/carbonic_web_005.htm</a></td>
</tr>
</tbody>
</table>

Food Grade CO2 Producers

The map on the following page provides information on facilities that produce food grade CO2 and utilities that utilize CO2. This map shows the location of CO2 producers relative to water utilities as proximity to a CO2 source can be a critical constraint given that long distance transport of high purity CO2 can be prohibitive in terms of expense and logistics. In addition, food grade CO2 producers are listed by state in the tables.

If your company is a supplier or producers of food grade CO2 to water utilities, please contact EPA at Minton.Gabrielle@epa.gov to be included on this list or for additional information.

---

1 42 USC 300j-1(a)(2)
Food Grade CO2 Producers and Water Utilities Using CO2

The following states have no Water Utilities that utilize CO2: AL, DE, HI, KY, NC

Legend
- Water Utilities using CO2*

Food Grade CO2 Producers
- CO2 Dome Producers
- Ethanol Producers
- Other Industrial Producers

*Water Utility data from: AK, CA, CO, IA, LA, ME, MI, MN, NH, NY, NV, NM, SC, SD, UT, VA, WA

The following states have no Water Utilities that utilize CO2: AL, DE, HI, KY, NC
# Food Grade CO2 Producers by State

<table>
<thead>
<tr>
<th>State</th>
<th>Name</th>
<th>Supply Type</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arizona</td>
<td>Indorama Ventures, Xylenes and PTA, LLC</td>
<td>Ethanol</td>
<td>Maricopa</td>
</tr>
<tr>
<td></td>
<td>Linde Gas North America LLC, Decatur Plant</td>
<td>Ethanol</td>
<td>Maricopa</td>
</tr>
<tr>
<td>California</td>
<td>Pinal Liquide Energy LLC</td>
<td>Ethanol</td>
<td>Maricopa</td>
</tr>
<tr>
<td></td>
<td>Aemetis Biofuels</td>
<td>Ethanol</td>
<td>Keyes</td>
</tr>
<tr>
<td></td>
<td>Calgren Renewable Fuels</td>
<td>Ethanol</td>
<td>Pixley</td>
</tr>
<tr>
<td></td>
<td>Pacific Ethanol Inc.</td>
<td>Ethanol</td>
<td>Stockton</td>
</tr>
<tr>
<td></td>
<td>Chevron Prods. Co. Richmond Refinery</td>
<td>Refinery</td>
<td>Richmond</td>
</tr>
<tr>
<td></td>
<td>Chevron Products, El Segundo Refinery</td>
<td>Refinery</td>
<td>El Segundo</td>
</tr>
<tr>
<td></td>
<td>Los Angeles Refinery (LAR)</td>
<td>Refinery</td>
<td>Carson</td>
</tr>
<tr>
<td></td>
<td>Phillips 66 Los Angeles Refinery - Carson Plant</td>
<td>Refinery</td>
<td>Carson</td>
</tr>
<tr>
<td></td>
<td>Phillips 66 Los Angeles Refinery - Wilmington Plant</td>
<td>Refinery</td>
<td>Wilmington</td>
</tr>
<tr>
<td></td>
<td>Tesoro Refining and Marketing Company Golden Eagle Refinery</td>
<td>Refinery</td>
<td>Martinez</td>
</tr>
<tr>
<td></td>
<td>Torrance Refining Company LLC</td>
<td>Refinery</td>
<td>Torrance</td>
</tr>
<tr>
<td></td>
<td>Valero Refining Co - California Benicia Refinery</td>
<td>Refinery</td>
<td>Benicia</td>
</tr>
<tr>
<td>Delaware</td>
<td>Pinal Liquide Energy LLC</td>
<td>Ethanol</td>
<td>Maricopa</td>
</tr>
<tr>
<td>Georgia</td>
<td>Flint Hills Resources Camilla, LLC</td>
<td>Ethanol</td>
<td>Pelham</td>
</tr>
<tr>
<td></td>
<td>PCS Nitrogen Fertilizer, L.P.</td>
<td>Ammonia</td>
<td>Augusta</td>
</tr>
<tr>
<td>Illinois</td>
<td>Illinois Corn Processing LLC</td>
<td>Ethanol</td>
<td>Pekin</td>
</tr>
<tr>
<td></td>
<td>Pacific Ethanol Pekin, LLC</td>
<td>Ethanol</td>
<td>Pekin</td>
</tr>
<tr>
<td></td>
<td>East Dubuque Nitrogen Fertilizers, LLC</td>
<td>Ammonia</td>
<td>East Dubuque</td>
</tr>
<tr>
<td>Indiana</td>
<td>Cardinal Ethanol, LLC</td>
<td>Ethanol</td>
<td>Union City</td>
</tr>
<tr>
<td></td>
<td>Central Indiana Ethanol, LLC</td>
<td>Ethanol</td>
<td>Marion</td>
</tr>
<tr>
<td></td>
<td>Grain Processing Corp</td>
<td>Ethanol</td>
<td>Washington</td>
</tr>
<tr>
<td></td>
<td>South Bend Ethanol, LLC</td>
<td>Ethanol</td>
<td>South Bend</td>
</tr>
<tr>
<td></td>
<td>Praxair - Whiting, In 1-4</td>
<td>Refinery</td>
<td>East Chicago</td>
</tr>
<tr>
<td>Iowa</td>
<td>Grain Processing Corp</td>
<td>Ethanol</td>
<td>Muscatine</td>
</tr>
<tr>
<td></td>
<td>Quad County Corn Processors</td>
<td>Ethanol</td>
<td>Galva</td>
</tr>
<tr>
<td></td>
<td>Southwest Iowa Renewable Energy (SIRE)</td>
<td>Ethanol</td>
<td>Council Bluffs</td>
</tr>
<tr>
<td></td>
<td>The Andersons Denison Ethanol, LLC</td>
<td>Ethanol</td>
<td>Denison</td>
</tr>
<tr>
<td>State</td>
<td>Name</td>
<td>Supply Type</td>
<td>City</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------------------------</td>
<td>---------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Kansas</td>
<td>Arkalon Ethanol LLC</td>
<td>Ethanol</td>
<td>Liberal</td>
</tr>
<tr>
<td></td>
<td>Bonanza Bioenergy, LLC</td>
<td>Ethanol</td>
<td>Garden City</td>
</tr>
<tr>
<td></td>
<td>Kansas Ethanol LLC</td>
<td>Ethanol</td>
<td>Lyons</td>
</tr>
<tr>
<td></td>
<td>Koch Fertilizer Dodge City, LLC</td>
<td>Ammonia</td>
<td>Dodge City</td>
</tr>
<tr>
<td>Kentucky</td>
<td>Commonwealth Agri-Energy LLC</td>
<td>Ethanol</td>
<td>Hopkinsville</td>
</tr>
<tr>
<td></td>
<td>Phoenix Paper Wickliffe LLC</td>
<td>Pulp and Paper</td>
<td>Ballard</td>
</tr>
<tr>
<td>Maryland</td>
<td>AES Warrior Run</td>
<td>Power Plant</td>
<td>Cumberland</td>
</tr>
<tr>
<td>Michigan</td>
<td>Andersons Albion Ethanol LLC</td>
<td>Ethanol</td>
<td>Albion</td>
</tr>
<tr>
<td></td>
<td>Green Plains Holdings II LLC</td>
<td>Ethanol</td>
<td>Riga</td>
</tr>
<tr>
<td>Minnesota</td>
<td>Air Liquide-Corn Clean Fuel</td>
<td>Ethanol</td>
<td>Claremont</td>
</tr>
<tr>
<td></td>
<td>Archer Daniels Midland</td>
<td>Ethanol</td>
<td>Marshall</td>
</tr>
<tr>
<td></td>
<td>Poet Biorefining - Preston, LLC</td>
<td>Ethanol</td>
<td>Preston</td>
</tr>
<tr>
<td></td>
<td>Poet Biorefining Glenville LLC</td>
<td>Ethanol</td>
<td>Albert Lea</td>
</tr>
<tr>
<td></td>
<td>Poet Biorefining-Bingham Lake</td>
<td>Ethanol</td>
<td>Bingham Lake</td>
</tr>
<tr>
<td>Mississippi</td>
<td>Barksdale CO2 Dehydration Facility</td>
<td>Ethanol</td>
<td>Rankin</td>
</tr>
<tr>
<td></td>
<td>Gluckstadt CO2 Dehydration Facility</td>
<td>Ethanol</td>
<td>Madison</td>
</tr>
<tr>
<td></td>
<td>Jackson Dome CO2 Dehydration Facility</td>
<td>Ethanol</td>
<td>Rankin</td>
</tr>
<tr>
<td>Montana</td>
<td>ICM Biofuels LLC (Lifeline Foods)</td>
<td>Ethanol</td>
<td>Saint Joseph</td>
</tr>
<tr>
<td></td>
<td>Poet Biorefining Laddonia</td>
<td>Ethanol</td>
<td>Laddonia</td>
</tr>
<tr>
<td></td>
<td>Poet Biorefining-Macon</td>
<td>Ethanol</td>
<td>Macon</td>
</tr>
<tr>
<td></td>
<td>Anheuser-Busch LLC - St. Louis Brewery</td>
<td>Food and Beverage</td>
<td>St. Louis City</td>
</tr>
<tr>
<td>Nebraska</td>
<td>E Energy Adams</td>
<td>Ethanol</td>
<td>Adams</td>
</tr>
<tr>
<td></td>
<td>Koch Fertilizer Beatrice, LLC</td>
<td>Ammonia</td>
<td>Beatrice</td>
</tr>
<tr>
<td>New Mexico</td>
<td>Libby Ranch CO2 Production</td>
<td>Natural Geologic</td>
<td>Harding</td>
</tr>
<tr>
<td>New York</td>
<td>Sunoco Fulton Ethanol Plant</td>
<td>Ethanol</td>
<td>Fulton</td>
</tr>
<tr>
<td></td>
<td>Western New York Energy LLC</td>
<td>Ethanol</td>
<td>Medina</td>
</tr>
<tr>
<td></td>
<td>Anheuser Busch Baldwinsville Brewery</td>
<td>Food and Beverage</td>
<td>Onondaga County</td>
</tr>
<tr>
<td>Name</td>
<td>Supply Type</td>
<td>City</td>
<td>City</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-------------</td>
<td>-----------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Andersons Marathon Ethanol LLC</td>
<td>Ethanol</td>
<td>Greenville</td>
<td></td>
</tr>
<tr>
<td>Marion Ethanol LLC D/B/A Poet Biorefining</td>
<td>Ethanol</td>
<td>Marion</td>
<td></td>
</tr>
<tr>
<td>Poet Biorefining</td>
<td>Ethanol</td>
<td>Fostoria</td>
<td></td>
</tr>
<tr>
<td>PCS Nitrogen Ohio, L.P.</td>
<td>Ammonia</td>
<td>Lima</td>
<td></td>
</tr>
</tbody>
</table>

**Oklahoma**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supply Type</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>AES Shady Point, LLC</td>
<td>Power Plant</td>
<td>Le Flore County</td>
<td></td>
</tr>
<tr>
<td>Koch Fertilizer Enid LLC Enid Nitrogen PLT</td>
<td>Ammonia</td>
<td>Enid</td>
<td></td>
</tr>
<tr>
<td>Pryor Chemical Company</td>
<td>Ammonia</td>
<td>Pryor</td>
<td></td>
</tr>
<tr>
<td>Terra International (Oklahoma) Inc</td>
<td>Ammonia</td>
<td>Woodward</td>
<td></td>
</tr>
</tbody>
</table>

**Oregon**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supply Type</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pacific Ethanol Columbia LLC</td>
<td>Ethanol</td>
<td>Boardman</td>
<td></td>
</tr>
</tbody>
</table>

**Pennsylvania**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supply Type</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pennsylvania Grain Processing</td>
<td>Ethanol</td>
<td>Clearfield</td>
<td></td>
</tr>
</tbody>
</table>

**South Dakota**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supply Type</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poet Research Center, Inc.</td>
<td>Ethanol</td>
<td>Scotland</td>
<td></td>
</tr>
</tbody>
</table>

**Tennessee**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supply Type</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tate &amp; Lyle-Loudon</td>
<td>Ethanol</td>
<td>Loudon</td>
<td></td>
</tr>
</tbody>
</table>

**Texas**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supply Type</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valero Corpus Christi Refinery East Plant</td>
<td>Refinery</td>
<td>Corpus Christi</td>
<td></td>
</tr>
</tbody>
</table>

**Utah**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supply Type</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>XTO - Castle Valley</td>
<td>Refinery</td>
<td>Price</td>
<td></td>
</tr>
</tbody>
</table>

**Virginia**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supply Type</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Du Pont James River Gypsum Plant</td>
<td>Refinery</td>
<td>Richmond</td>
<td></td>
</tr>
</tbody>
</table>

**Wisconsin**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supply Type</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ace Ethanol LLC</td>
<td>Ethanol</td>
<td>Stanley</td>
<td></td>
</tr>
<tr>
<td>Badger State Ethanol</td>
<td>Ethanol</td>
<td>Monroe</td>
<td></td>
</tr>
<tr>
<td>Big River Resources Boyceville, LLC</td>
<td>Ethanol</td>
<td>Boyceville</td>
<td></td>
</tr>
<tr>
<td>Fox River Valley Ethanol, LLC</td>
<td>Ethanol</td>
<td>Oshkosh</td>
<td></td>
</tr>
<tr>
<td>United Ethanol</td>
<td>Ethanol</td>
<td>Milton</td>
<td></td>
</tr>
<tr>
<td>Valero Jefferson Plant</td>
<td>Ethanol</td>
<td>Jefferson</td>
<td></td>
</tr>
</tbody>
</table>

**Wyoming**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supply Type</th>
<th>City</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheyenne Plant</td>
<td>Ammonia</td>
<td>Cheyenne</td>
<td></td>
</tr>
<tr>
<td>Shute Creek Facility</td>
<td>Refinery</td>
<td>Lincoln County</td>
<td></td>
</tr>
</tbody>
</table>