



2021 Consumer Confidence Report



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Dear Customer,

We at the Vail Water Company are pleased to present you with the 2021 Consumer Confidence Report. The U.S. Environmental Quality Agency (EPA) and the Arizona Department of Environmental Quality (ADEQ) require that all water agencies produce an annual report on the previous year informing customers about the quality and the source of their drinking water.

In the following pages, you will find important information about the quality of your water. The next few pages will also tell you about some of the steps Vail Water Company has taken to ensure good drinking water for the future.

VAIL WATER IS A CONSECUTIVE CONNECTION SOURCE THROUGH TUCSON WATER

Vail Water Company is a public water system that receives some or all of its finished water from one or more wholesale systems by means of a direct connection, or through the distribution system of one or more consecutive systems. Systems that purchase water from another system report regulated contaminants detected from the source water supply in a separate table.

PWS ID #10-112 provides a consecutive connection source of water.

**CONTACT
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Consumer Confidence Report for Calendar Year **2021**

Este informe contiene información muy importante sobre el agua usted bebe.
Tradúscalo ó hable con alguien que lo entienda bien.

Public Water System ID Number	Public Water System Name		
AZ04-10-041	Vail Water Company		
Contact Name and Title	Phone Number	E-mail Address	
Keith Dojaquez, Lead Operator	520-647-3679	kdojaquez@gmail.com	

We want our valued customers to be informed about their water quality. If you would like to learn more about public participation or to attend any of our regularly scheduled meetings, please contact Manny Oros at Vail Water Company for additional opportunity and meeting dates and times.

Drinking Water Sources

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals, and in some cases, radioactive material, and can pickup substances resulting from the presence of animals or from human activity.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Our water source(s): CAP

Consecutive Connection Sources *(Applies to Water Systems that buy water, please delete section if does not apply)*

A public water system that receives some or all of its finished water from one or more wholesale systems by means of a direct connection or through the distribution system of one or more consecutive systems. Systems that purchase water from another system report regulated contaminants detected from the source water supply in a separate table.

City of Tucson PWS # AZ04-10-112 provides us a consecutive connection source of water.

Drinking Water Contaminants

Microbial Contaminants: Such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife

Organic Chemical Contaminants: Such as synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.

Inorganic Contaminants: Such as salts and metals that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming

Radioactive Contaminants: That can be naturally occurring or be the result of oil and gas production and mining activities.

Pesticides and Herbicides: Such as agriculture, urban storm water runoff, and residential uses that may come from a variety of sources

Vulnerable Population

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. Some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers.

For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and microbiological contaminants call the EPA *Safe Drinking Water Hotline* at 1-800-426-4791.

Source Water Assessment

- **IF SWA REPORT INDICATES YOUR SUSCEPTIBILITY IS HIGH RISK:** Based on the information currently available on the hydrogeologic settings and the adjacent land uses that are in the specified proximity of the drinking water source(s) of this public water system, the Arizona Department of Environmental Quality (ADEQ) has given a high risk designation for the degree to which this public water system drinking water source(s) are protected. A designation of high risk indicates there may be additional source water protection measures which can be implemented on the local level. This does not imply that the source water is contaminated nor does it mean that contamination is imminent. Rather, it simply states that land use activities or hydrogeologic conditions exist that make the source water susceptible to possible future contamination.

Definitions

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water

Level 1 Assessment: A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria was present

Level 2 Assessment: A very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria was present

Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment, or other requirements

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health

Maximum Residual Disinfectant Level (MRDL): The level of disinfectant added for water treatment that may not be exceeded at the consumer's tap

Maximum Residual Disinfectant Level Goal (MRDLG): The level of disinfectant added for treatment at which no known or anticipated adverse effect on health of persons would occur

Minimum Reporting Limit (MRL): The smallest measured concentration of a substance that can be reliably measured by a given analytical method

Millirems per year (MREM): A measure of radiation absorbed by the body

Not Applicable (NA): Sampling was not completed by regulation or was not required

Not Detected (ND or <): Not detectable at reporting limit

Nephelometric Turbidity Units (NTU): A measure of water clarity

Million fibers per liter (MFL)

Picocuries per liter (pCi/L): Measure of the radioactivity in water

ppm: Parts per million or Milligrams per liter (mg/L)

ppb: Parts per billion or Micrograms per liter (µg/L)

ppt: Parts per trillion or
Nanograms per liter (ng/L)

ppm x 1000 = ppb

ppq: Parts per quadrillion or
Picograms per liter (pg/L)

ppb x 1000 = ppt

ppt x 1000 = ppq

Lead Informational Statement: *(Applies to All Water Systems, please do not remove even if your system did not detect any Lead)*

Lead, in drinking water, is primarily from materials and components associated with service lines and home plumbing. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. **Vail Water Company** is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

Water Quality Data – Regulated Contaminants

Microbiological (RTCR)	TT Violation Y or N	Number of Positive Samples	Positive Sample(s) Month & Year	MCL	MCLG	Likely Source of Contamination
E. Coli	N	N/D	2021	0	0	Human and animal fecal waste
Fecal Indicator (From GWR source) (coliphage, enterococci and/or E. coli)	N	N/D	2021	0	0	Human and animal fecal waste
Surface Water Treatment Rule	TT Violation Y or N	Highest Level Detected	% Range (Low-High)	TT	Sample Month & Year	Likely Source of Contamination
Total Organic Carbon ¹ (mg/L)	N/A	N/A	N/A	TT	N/A	Naturally Present in the Environment
Turbidity ² (NTU)	N/A	N/A	N/A	TT	N/A	Soil runoff

¹ Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection byproducts. These byproducts include trihalomethanes (THM) and haloacetic acids (HAA). Drinking water containing these byproducts in excess of the MCL may lead to adverse health effects, liver, or kidney problems, or nervous system effects, and may lead to an increased risk of getting cancer.

² Turbidity is a measure of the cloudiness of water and is an indication of the effectiveness of our filtration system. We monitor it because it is a good indicator of the quality of water. High turbidity can hinder the effectiveness of disinfectants. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Disinfectants	MCL Violation Y or N	Running Annual Average (RAA)	Range of All Samples (Low-High)	MRDL	MRDLG	Sample Month & Year	Likely Source of Contamination
Chlorine/Chloramine (ppm)	N	0.789	0.610-0.990	4	<4	12/2021	Water additive used to control microbes
Chlorine dioxide (ppb) <i>if treated with CLO2</i>	n/a	n/a	n/a	800	0	n/a	Water additive used to control microbes
Disinfection By-Products	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Haloacetic Acids (HAA5) (ppb)	N	3.1	2.6 - 3.1	60	N/A	12/2021	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	N	25.5	5.8 - 25.5	80	N/A	12/2021	Byproduct of drinking water disinfection
Bromate (ppb) <i>if treated with Ozone</i>	N/A	N/A	N/A	10	0	N/A	Byproduct of drinking water disinfection
Chlorite (ppm) <i>if treated with CLO2</i>	N/A	N/A	N/A	1	0.8	N/A	Byproduct of drinking water disinfection
Lead & Copper	MCL Violation Y or N	90 th Percentile	Number of Samples Exceeds AL	AL	ALG	Sample Month & Year	Likely Source of Contamination
Copper (ppm)	N	0.066	0	1.3	1.3	12/2019	Corrosion of household plumbing systems; erosion of natural deposits
Lead (ppb)	N	<1.0	0	15	0	12/2019	Corrosion of household plumbing systems; erosion of natural deposits
Radionuclides	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Beta/Photon Emitters (mrem/yr.)	N/A	N/A	N/A	4	0	N/A	Decay of natural and man-made deposits
Alpha Emitters (pCi/L) <i>(This is Gross Alpha 4000)</i>	N	3.7	0.4-3.7	15	0	06/2015	Erosion of natural deposits
Combined Radium-226 & -228 (pCi/L)	N	<0.7	<0.4-<0.7	5	0	06/2015	Erosion of natural deposits
Uranium (ug/L)				30	0		Erosion of natural deposits
Inorganic Chemicals (IOC)	MCL Violation Y or N	Running Annual Average (RAA) OR	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination

		Highest Level Detected					
Antimony (ppb)	N	<1	<1	6	6	06/2015	Discharge from petroleum refineries; fire retardants; ceramics, electronics and solder
Arsenic¹ (ppb)	N	3.5	2.1-3.5	10	0	06/2015	Erosion of natural deposits, runoff from orchards, runoff from glass and electronics production wastes
Asbestos (MFL)	N	<0.73	<0.73	7	7	06/2015	Decay of asbestos cement water mains; Erosion of natural deposits
Barium (ppm)	N	0.25	0.028-0.25	2	2	06/2015	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Beryllium (ppb)	N	<1	<1	4	4	06/2015	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	N	<0.5	<0.5	5	5	06/2015	Corrosion of galvanized pipes; natural deposits; metal refineries; runoff from waste batteries and paints
Chromium (ppb)	N	<1	<1	100	100	06/2015	Discharge from steel and pulp mills; Erosion of natural deposits
Cyanide 4500CN-F (ppb)	N	<25	<25	200	200	06/2015	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories
Cyanide 335.4 (ppb)	N	<5	<5				
Fluoride (ppm)	N	0.64	0.59-0.64	4	4	06/2015	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (ppb)	N	<0.2	<0.2	2	2	06/2015	Erosion of natural deposits; Discharge from refineries and factories; Runoff from landfills and cropland.
Nitrate (ppm)	N	2.2	0.93-2.2	10	10	06/2015	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrite² (ppm)	N	<0.05	<0.05	1	1	06/2015	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium (ppb)	N	<5	<5	50	50	06/2015	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium (ppm)	N	44	26-44	N/A	N/A	06/2015	Erosion of natural deposits
Thallium (ppb)	N	<1	<1	2	0.5	06/2015	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

¹ **Arsenic** is a mineral known to cause cancer in humans at high concentration and is linked to other health effects, such as skin damage and circulatory problems. If arsenic is less than or equal to the MCL, your drinking water meets EPA's standards. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water, and continues to research the health effects of low levels of arsenic.

² **Nitrate** in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause "blue baby syndrome." Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, and detected nitrate levels are above 5 ppm, you should ask advice from your health care provider.

Synthetic Organic Chemicals (SOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
2,4-D (ppb)	N	<0.0001	<0.0001	70	70	07/2015	Runoff from herbicide used on row crops
2,4,5-TP (a.k.a. Silvex) (ppb)	N	<0.0002	<0.0002	50	50	07/2016	Residue of banned herbicide
Acrylamide	N	<0.05	<0.05	TT	0	05/2012	Added to water during sewage / wastewater treatment
Alachlor (ppb)	N	<0.0001	<0.0001	2	0	07/2015	Runoff from herbicide used on row crops
Atrazine (ppb)	N/A	N/A	N/A	3	3	N/A	Runoff from herbicide used on row crops
Benzo (a) pyrene (PAH) (ppt)	N	<0.00002	<0.00002	200	0	07/2015	Leaching from linings of water storage tanks and

							distribution lines
Carbofuran (ppb)	N	<0.0005	<0.0005	40	40	07/2015	Leaching of soil fumigant used on rice and alfalfa
Chlordane (ppb)	N	<0.0001	<0.0001	2	0	07/2015	Residue of banned termiticide
Dalapon (ppb)	N	<0.001	<0.001	200	200	07/2015	Runoff from herbicide used on rights of way
Di (2-ethylhexyl) adipate (ppb)	N	<0.0006	<0.0006	400	400	07/2015	Discharge from chemical factories
Di (2-ethylhexyl) phthalate (ppb)	N	<0.0006	<0.0006	6	0	07/2015	Discharge from rubber and chemical factories
Dibromochloropropane (ppt)	N	<0.00001	<0.00001	200	0	07/2015	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
Dinoseb (ppb)	N	<0.0002	<0.0002	7	7	07/2015	Runoff from herbicide used on soybeans and vegetables
Diquat (ppb)	N	<0.0004	<0.0004	20	20	07/2015	Runoff from herbicide use
Dioxin [a.k.a. 2,3,7,8-TCDD] (ppq)	N	<0.000000005	<0.000000005	30	0	07/2015	Emissions from waste incineration and other combustion; discharge from chemical factories
Endothall (ppb)	N	<0.005	<0.005	100	100	07/2015	Runoff from herbicide use
Endrin (ppb)	N	<0.00001	<0.00001	2	2	07/2015	Residue of banned insecticide
Epichlorohydrin	N/A	N/A	N/A	TT	0	N/A	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
Ethylene dibromide (ppt)	N	<0.00001	<0.00001	50	0	07/2015	Discharge from petroleum refineries
Glyphosate (ppb)	N	<0.006	<0.006	700	700	07/2015	Runoff from herbicide use
Heptachlor (ppt)	N	<0.00001	<0.00001	400	0	07/2015	Residue of banned termiticide
Heptachlor epoxide (ppt)	N	<0.00001	<0.00001	200	0	07/2015	Breakdown of heptachlor
Hexachlorobenzene (ppb)	N	<0.00005	<0.00005	1	0	07/2015	Discharge from metal refineries and agricultural chemical factories
Hexachlorocyclo pentadiene (ppb)	N	<0.00005	<0.00005	50	50	07/2015	Discharge from chemical factories
Lindane (ppt)	N	<0.00001	<0.00001	200	200	07/2015	Runoff/leaching from insecticide used on cattle, lumber, gardens
Methoxychlor (ppb)	N	<0.00005	0.00005	40	40	07/2015	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa,
Oxamyl (a.k.a. Vydate) (ppb)	N	<0.0005	<0.0005	200	200	07/2015	Runoff/leaching from insecticide used on apples, potatoes and tomatoes
PCBs [Polychlorinated biphenyls] (ppt)	N/A	N/A	N/A	500	0	N/A	Runoff from landfills; discharge of waste chemicals
Pentachlorophenol (ppb)	N	<0.04	<0.04	1	0	07/2015	Discharge from wood preserving factories
Picloram (ppb)	N	<0.1	<0.0	500	500	07/2015	Herbicide runoff
Simazine (ppb)	N	<0.05	<0.05	4	4	07/2015	Herbicide runoff
Toxaphene (ppb)	N	<0.5	<0.5	3	0	07/2015	Runoff/leaching from insecticide used on cotton and cattle
Volatile Organic Chemicals (VOC)	MCL Violation Y or N	Running Annual Average (RAA) OR Highest Level Detected	Range of All Samples (Low-High)	MCL	MCLG	Sample Month & Year	Likely Source of Contamination
Benzene (ppb)	N	<0.0005	<0.0005	5	0	07/2016	Discharge from factories; leaching from gas storage tanks and landfills
Carbon tetrachloride (ppb)	N	<0.0005	<0.0005	5	0	07/2016	Discharge from chemical plants and other industrial activities
Chlorobenzene (ppb)	N	<0.0005	<0.0005	100	100	07/2016	Discharge from chemical and agricultural chemical factories
o-Dichlorobenzene (ppb)	N	<0.0005	<0.0005	600	600	07/2016	Discharge from industrial chemical factories
p-Dichlorobenzene (ppb)	N	<0.0005	<0.0005	75	75	07/2016	Discharge from industrial chemical factories
1,2-Dichloroethane (ppb)	N	<0.0005	<0.0005	5	0	07/2016	Discharge from industrial chemical factories
1,1-Dichloroethylene (ppb)	N	<0.0005	<0.0005	7	7	07/2016	Discharge from industrial chemical factories
cis-1,2-Dichloroethylene (ppb)	N	<0.0005	<0.0005	70	70	07/2016	Discharge from industrial chemical factories
trans-1,2-Dichloroethylene (ppb)	N	<0.0005	<0.0005	100	100	07/2016	Discharge from industrial chemical factories
Dichloromethane (ppb)	N	<0.0005	<0.0005	5	0	07/2016	Discharge from

							pharmaceutical and chemical factories
1,2-Dichloropropane (ppb)	N	<0.0005	<0.0005	5	0	07/2016	Discharge from industrial chemical factories
Ethylbenzene (ppb)	N	<0.0005	<0.0005	700	700	07/2016	Discharge from petroleum refineries
Styrene (ppb)	N	<0.0005	<0.0005	100	100	07/2016	Discharge from rubber and plastic factories; leaching from landfills
Tetrachloroethylene (ppb)	N	<0.0005	<0.0005	5	0	07/2016	Discharge from factories and dry cleaners
1,2,4-Trichlorobenzene (ppb)	N	<0.0005	<0.0005	70	70	07/2016	Discharge from textile-finishing factories
1,1,1-Trichloroethane (ppb)	N	<0.0005	<0.0005	200	200	07/2016	Discharge from metal degreasing sites and other factories
1,1,2-Trichloroethane (ppb)	N	<0.0005	<0.0005	5	3	07/2016	Discharge from industrial chemical factories
Trichloroethylene (ppb)	N	<0.0005	<0.0005	5	0	07/2016	Discharge from metal degreasing sites and other factories
Toluene (ppm)	N	<0.0005	<0.0005	1	1	07/2016	Discharge from petroleum factories
Vinyl Chloride (ppb)	N	<0.0003	<0.0003	2	0	07/2016	Leaching from PVC piping; discharge from chemical factories
Xylenes (ppm)	N	<0.0005	<0.0005	10	10	07/2016	Discharge from petroleum or chemical factories

Water Quality Table - Unregulated Contaminant Monitoring Rule (UCMR4)

Metals	Detected (Y/N)	Average	Range of All Samples (Low-High)	MRL	Likely Source of Contamination
Germanium (ppt)	Y	500	500	300	Naturally-occurring element; commercially available in combination with other elements and minerals; a byproduct of zinc ore processing; used in infrared optics, fiber-optic systems, electronics and solar applications
Manganese (ppt)	N	N/A	N/A	400	Naturally-occurring element; commercially available in combination with other elements and minerals; used in steel production, fertilizer, batteries and fireworks; drinking water and wastewater treatment chemical; essential nutrient
Pesticides	Detected (Y/N)	Average	Range of All Samples (Low-High)	MRL	Likely Source of Contamination
Alpha-hexachlorocyclohexane (ppt)	N/A	N/A	N/A	10	Component of benzene hexachloride (BHC); formerly used as an insecticide
Chlorpyrifos (ppt)	N/A	N/A	N/A	30	Organophosphate; used as an insecticide, acaricide and miticide
Dimethipin (ppt)	N/A	N/A	N/A	200	Used as an herbicide and plant growth regulator
Ethoprop (ppt)	N/A	N/A	N/A	30	Used as an insecticide
Oxyfluorfen (ppt)	N/A	N/A	N/A	50	Used as an herbicide
Profenofos (ppt)	N/A	N/A	N/A	300	Used as an insecticide and acaricide
Tebuconazole (ppt)	N/A	N/A	N/A	200	Used as a fungicide
Total permethrin (cis- & trans-) (ppt)	N/A	N/A	N/A	40	Used as an insecticide
Pesticides Manufacturing By-Product	Detected (Y/N)	Average	Range of All Samples (Low-High)	MRL	Likely Source of Contamination
Tribufos (ppt)	N/A	N/A	N/A	700	Used as an insecticide and cotton defoliant Water additive used to control microbes
Alcohols	Detected (Y/N)	Average	Range of All Samples (Low-High)	MRL	Likely Source of Contamination
1-butanol (ppb)	N	N/A	N/A	2.0	Used as a solvent, food additive and in production of other chemicals
2-methoxyethanol (ppt)	N	N/A	N/A	400	Used in a number of consumer products, such as synthetic cosmetics, perfumes, fragrances, hair preparations and skin lotions
2-propen-1-ol (ppt)	N	N/A		500	Used in the production flavorings, perfumes and other chemicals
Semivolatile Chemicals	Detected (Y/N)	Average	Range of All Samples (Low-High)	MRL	Likely Source of Contamination
Butylated hydroxyanisole (ppt)	N	N/A	N/A	30	Used as a food additive (antioxidant)
O-toluidine (ppt)	N	N/A	N/A	7	Used in the production of dyes, rubber, pharmaceuticals and pesticides
Quinolone (ppt)	N	N/A	N/A	20	Used as a pharmaceutical (anti-malarial) and flavoring agent; produced as a chemical intermediate; component of coal

