

ALLYL PROPYL DISULFIDE

Synonyms: Allyl propyl disulphate; **Disulfide, 2-propenyl propyl; Disulfide, allyl propyl; 2-Propenyl propyl disulfide; Propenyl propyl disulfide; 4,5-Dithia-1-octene; Propyl allyl disulfide**

CAS No.:	2179-59-1	FL No.:	12.021	FEMA No.:	4073	NAS No.:	n/a
CoE No.:	600	EINECS No.:	218-550-7	JECFA No.:	1700		

Description: Colorless to yellowish liquid; fruity, garlic aroma.

Consumption: Odor and/or flavor used in cabbage, tropical fruit, garlic, leek, and onion Annual: n/a

Individual: n/a

Regulatory Status:

CoE: n/a

FDA: n/a

FDA (other): n/a

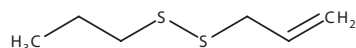
JECFA: ADI: Acceptable. No safety concern at current levels of intake when used as a flavoring agent (2007).

Trade association guidelines: FEMA PADI 0.091 mg

IOFI: n/a

Empirical Formula/MW:

C₆H₁₂S₂/148.29

**Specifications:** (JECFA, 2008)

Assay (min)	93%
Boiling point	66°C (10 mmHg) 195–200°C
Other requirements	Also contains 1–2% allyl propyl sulfide and 1–2% dipropylsulfide

Refractive index	1.497–1.517 (20°C)
Solubility	Practically insoluble to insoluble in water ; soluble in ethanol
Specific gravity	0.999–1.005 (25°C)

Reported uses (ppm): (FEMA, 2005)

Food Category	Usual	Max.
Baked goods	0.20	1.00
Breakfast cereals	0.10	0.50
Cheese	0.20	1.00
Condiments, relishes	0.10	0.50
Confection, frosting	0.20	1.00
Fats, oils	0.10	0.50
Fish products	0.10	0.20
Frozen dairy	0.20	1.00
Fruit ices	0.20	1.00
Gravies	0.40	2.00

Food Category	Usual	Max.
Imitation dairy	0.20	1.00
Meat products	0.10	0.20
Milk products	0.20	1.00
Other grains	0.10	0.50
Poultry	0.10	0.20
Processed fruits	0.20	1.00
Seasonings, flavors	0.10	0.50
Snack foods	0.10	0.50
Soups	0.10	0.50
Sweet sauce	0.10	0.50

Synthesis: n/a

Aroma threshold values: High strength odor, sulfurous type; recommend smelling in a 0.10% solution or less.

Taste threshold values: Taste like that of cooked onions.

Natural occurrence: Reported as the chief volatile constituent in onion oil and found in raw cabbage, chive, garlic oil, leek and onion.

ALLYL SORBATE

Synonyms: Allyl-2,4-hexadienoate; **Allyl hexa-2,4-dienoate; Allyl sorbate; 2-Propenyl sorbate; 2,4-Hexadienoic acid, 2-propenyl ester, (E,E)-; (E,E)-2-Propenyl 2,4-hexadienoate; 2,4-hexadienoic acid, 2-propen-1-yl ester (2E, 4E)-**

CAS No.:	7493-75-6	FL No.:	09.312	FEMA No.:	2041	NAS No.:	2041
CoE No.:	2182	EINECS No.:	231-336-8	JECFA No.:	8		

Description: Allyl sorbate is a colorless liquid with a fruity pineapple-like odor.

Consumption: Annual: <1.00 lb

Individual: 0.00000061 mg/kg/day