

Version 1.0 Revision Date 29.11.2021 Print Date 29.11.2021 <u>www.markherb.com</u>

# Section 1. Product and Company Information

GHS Product Name:	Caffeic Acid
Product Code:	PHE-13-100
CAS:	[331-39-5]
Molecular Formula:	C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>
	(E)-3-(3,4-dihydroxyphenyl)prop-2-enoic acid; 3,4-Dihydroxycinnamic Acid; 331-39-5; 3-(3,4-
	Dihydroxyphenyl)Acrylic Acid; Trans-Caffeic Acid; 3,4-Dihydroxybenzeneacrylic Acid; (2E)-3-
	(3,4-Dihydroxyphenyl)Prop-2-Enoic Acid; (E)-3-(3,4-Dihydroxyphenyl)Acrylic Acid; Asam
	Kafeat (INA)
Company:	MarkHerb
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# Section 2. Hazards Identification

2.1 GHS classification PHYSICAL HAZARDS Not classified HEALTH HAZARDS Carcinogenicity (Category 2), H351 Reproductive toxicity (Category 2), H361 ENVIRONMENTAL HAZARDS Not classified

#### 2.2 GHS label elements, including precautionary statements Pictograms or hazard symbols



Signal word Warning

#### Hazard statements

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child

#### **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
P281	Use personal protective equipment as required.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked-up.
P501	Dispose of contents/container to an approved waste disposal plant.

## Section 3. Information on Basic Physical and Chemical Properties

Physical States:	[ ] Gas [ ] Liquid [ X ] Solid		
Melting Point:	211-213°C		
Boiling Point:	416.8±35.0°C at 760 mmHg		
Flash Pt:	220.0±22.4°C		
Evaporation Rate:	No data		
Flammability (solid, gas):	No data available.		
Explosive Limits:	LEL: No data. UEL: No data		
Vapor Pressure (vs. Air or mm Hg):	0.0±1.0 mmHg at 25°C		
Vapor Density (vs. Air = 1):	No data.		
Specific Gravity (Water = 1):	No data.		
Solubility in Water:	<1 mg/ml		
Solubility Notes:	~50 mg/ml in EtOH; 40 mg/ml in DMSO; 25 mg/ml in EtOH warm; ~7 mg/ml		
	in EtOH, DMSO, & DMF; ~0.65 mg/mol PBS (pH 7.2); Hot Water; Ethyl		
	Acetate (Soluble); Chloroform (Very slightly soluble); Hexane (Very slightly		
	soluble); methanol (Very soluble);		
Autoignition Pt:	No data.		
Percent Volatile:	No data.		
Partition coefficient:	log Pow: 1.15 (n-Octanol/Water)		
pH:	No data		

### Section 4. First aid measures

# Description of first aid measures If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of skin contact Wash off with soap and plenty of water. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2). Indication of any immediate medical attention and special treatment needed

No data available

## Section 5. Fire Fighting Measures

#### Suitable extinguishing

Media: Dry chemical, alcohol-resistant foam, water spray, carbon dioxide.

**Precautions for firefighters:** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

#### Special protective:

equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment.

## Section 6. Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### **Environmental precautions**

Do not let product enter drains.

#### **General Information:**

Use proper personal protective equipment as indicated in Section 8.

#### Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete.

## Section 7. Handling and Storage

#### Precautions for safe handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

#### Storage:

Store in a well closed container. Protected from air and light, refrigerate or freeze (2-8°C) Recommended storage temperature: -20°C

#### Specific end uses

Use in a laboratory fume hood where possible. Refer to employer is COSHH risk assessment.

# Section 8. Exposure Controls / Personal Protection

#### Engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Control parameters: Not set up

#### Personal protective equipment:

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Wear safety glasses and chemical goggles if splashing is possible.

# Section 9. Stability and Reactivity

# Reactivity Stable under recommended transport or storage conditions. Chemical Stability Stable under normal temperatures and pressures. Conditions to Avoid Incompatible materials, strong oxidants, heat. Incompatibilities with Other Materials Strong oxidising/reducing agents, strong acids/alkalis. Hazardous Decomposition Products Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen. Hazardous Polymerization Has not been reported.

## Section 10. Toxicological Information

Acute Toxicity:	No data			
Skin corrosion/irritation:	No data			
Serious eye damage/irritation:	No data			
Germ cell mutagenicity:	Genotoxicity in Vitro (Mouse - Lymphocyte)			
	Result: Mutation in mammalian somatic cells			
Carcinogenicity:				
Carcinogenicity - Rat - Oral				
Tumorigenic: Carcinogenic by TECS criteria				
Gastrointestinal: Tumors, Kidney, Ureter, Bladder: Kidney tumors.				
IARC = 2B - Group 2B: Possibly carcinogenic to humans				
NTP = No data				
Reproductive toxicity:	Possible risk of congenital malformation in the fetus.			
	Suspected human reproductive toxicant.			

## Section 11. Ecological Information

Toxicity:	No data
Persistence and degradability:	No data
Bioaccumulative potential:	No data
Mobility in soil:	No data
Results of PBT & vPvB assessment:	No data
Other adverse effects:	May be harmful to the aquatic environment.

## Section 12. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 13. Transport Information

Hazards Class Does not meet the criteria for classification as hazardous for transport. UN proper shipping name ADR/RID Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods Transport hazard class(es) Does not meet the criteria for classification as hazardous for transport.

## Section 14. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture no data Chemical Safety Assessment no data

## Section 15. Additional Information

This MSDS above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

----End of safety data sheet----