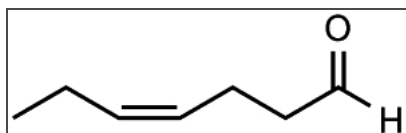




## Technical Data Sheet

|                            |                           |
|----------------------------|---------------------------|
| <b>BRI Product Number:</b> | <b>379</b>                |
| <b>BRI Product Name:</b>   | <b>cis-4-HEPTENAL FCC</b> |
| <b>CAS Number:</b>         | 6728-31-0                 |
| <b>FEMA Number:</b>        | 3289                      |
| <b>EU FLAVIS Number:</b>   | 05.085                    |
| <b>China GB Number:</b>    | S0137                     |
| <b>Molecular Weight:</b>   | 112.17                    |
| <b>Molecular Formula:</b>  | C7H12O                    |



|                  |                                                                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms:</b> | <ul style="list-style-type: none"><li>▶ 4-Heptenal, (4Z)-,</li><li>▶ cis-4-Hepten-1-al,</li><li>▶ cis-4-HEPTENAL FCC,</li><li>▶ z-4-Heptenal,</li></ul> |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|

|                  |                   |
|------------------|-------------------|
| <b>CAS Name:</b> | 4-Heptenal, (4Z)- |
|------------------|-------------------|

### APPLICATION INFORMATION

|                                         |                                                                  |
|-----------------------------------------|------------------------------------------------------------------|
| <b>Odor Description:</b>                | An extremely powerful, creamy, green matcha note.                |
| <b>Fragrance Use:</b>                   | Useful in providing a green herbaceous effect.                   |
| <b>Recommended Fragrance Use Level:</b> | Traces – 0.1%                                                    |
| <b>Tenacity on Blotter:</b>             | > 24 hours                                                       |
| <b>Taste Description:</b>               | Sharp, green, milky, heavy cream notes. Impression of tea notes. |

|                                      |                                                                                                                                                                              |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flavor Use:</b>                   | Enhances fresh cream notes in a variety of dairy-based flavors. Adds richness to caramel flavors. Also, useful in tea flavors, such as green, matcha, red and chrysanthemum. |
| <b>Recommended Flavor Use Level:</b> | 0.1 PPB – 0.1 PPM                                                                                                                                                            |

**SPECIFICATIONS**

|                          |                        |
|--------------------------|------------------------|
| <b>Minimum Purity:</b>   | 99.0% (sum of isomers) |
| <b>Main Isomer:</b>      | 95.0% min.(cis)        |
| <b>Secondary Isomer:</b> | 0.1% – 5.0%(trans)     |

|                    |                        |
|--------------------|------------------------|
| <b>Appearance:</b> | slightly yellow liquid |
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|                          |                           |
|--------------------------|---------------------------|
| <b>Refractive Index:</b> | 1.432 : 1.436 at 20 deg C |
|--------------------------|---------------------------|

|                          |                           |
|--------------------------|---------------------------|
| <b>Specific Gravity:</b> | 0.843 : 0.852 at 25 deg C |
|--------------------------|---------------------------|

|                   |                                    |
|-------------------|------------------------------------|
| <b>Additives:</b> | synthetic alpha tocopherol @ 0.50% |
|-------------------|------------------------------------|

|                           |                   |
|---------------------------|-------------------|
| <b>Acid Value (Max.):</b> | 5.0 mg KOH/g(max) |
|---------------------------|-------------------|

**TECHNICAL INFORMATION**

|                     |                |
|---------------------|----------------|
| <b>Flash Point:</b> | 110 deg F (CC) |
|---------------------|----------------|

|                                |                    |
|--------------------------------|--------------------|
| <b>Boiling Point (approx):</b> | 161.22 C (EPI 4.0) |
|--------------------------------|--------------------|

|                    |                                         |
|--------------------|-----------------------------------------|
| <b>Solubility:</b> | Insoluble in water; soluble in alcohol. |
|--------------------|-----------------------------------------|

|               |       |
|---------------|-------|
| <b>Log P:</b> | 2.070 |
|---------------|-------|

|                |     |
|----------------|-----|
| <b>Kosher:</b> | YES |
|----------------|-----|

|               |     |
|---------------|-----|
| <b>Halal:</b> | YES |
|---------------|-----|

|                        |     |
|------------------------|-----|
| <b>RIFM Monograph:</b> | YES |
|------------------------|-----|

|                 |    |
|-----------------|----|
| <b>Natural:</b> | NO |
|-----------------|----|

|                          |     |
|--------------------------|-----|
| <b>Nature Identical:</b> | YES |
|--------------------------|-----|

|                           |                                                |
|---------------------------|------------------------------------------------|
| <b>Regulatory Status:</b> | TSCA AICS CHINA DSL EINECS(229-779-7)<br>PICCS |
|---------------------------|------------------------------------------------|

|                            |              |
|----------------------------|--------------|
| <b>Export Tariff Code:</b> | 2912.19.9000 |
|----------------------------|--------------|

|                                   |                                |
|-----------------------------------|--------------------------------|
| <b>Shipped as Dangerous Good:</b> | YES WHEN SHIPPED VIA AIR/OCEAN |
|-----------------------------------|--------------------------------|

**PACKAGING AND STORAGE**

|                               |                                         |
|-------------------------------|-----------------------------------------|
| <b>Recommended Packaging:</b> | Glass, Aluminum or Phenolic Lined Steel |
|-------------------------------|-----------------------------------------|

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| <b>Shelf Life:</b> | 24 months from manufacture date (when stored as recommended) |
|--------------------|--------------------------------------------------------------|

|                             |                                                                       |
|-----------------------------|-----------------------------------------------------------------------|
| <b>Recommended Storage:</b> | Store tightly sealed under inert gas in a cool, well-ventilated area. |
|-----------------------------|-----------------------------------------------------------------------|

**Note:**

*BRI's Products are not for use in tobacco products, e cigarettes, or any other nicotine delivery devices; nor for use in non-tobacco delivery mechanisms such as vaping devices.*

**Last Revised:**

09/29/2017