



coreychem[®]

CERTIFICATE OF ANALYSIS

Career Henan Chemical Co

Building 3 of Innovation Park ,
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National University Science Park
of Henan Province

Tel: +86-371-86658258; 89219198

Fax: +86-371-6099 6044

E-mail: sales@coreychem.com

Web: www.coreychem.com

(±)-pin-2-ene

Certified reference material



CATALOG#: HC-PE1344

LOT#: 160420-07

CERTIFICATE VERSION : 100133.01

ISSUE DATE: 2016.04.23

RECEIPT DATE: _____

Note: this space is provided for convenience only and its use is not required.

STORAGE:

Individual variation in chemical stability profiles, do occur and for this reason we recommend adherence to the minimum recommended storage conditions. Because most compounds are custom made and shipped upon completion long-term stability data is not available in most cases. If data is available, a specific recommendation will be provided below. Career Henan Chemical Co cannot provide a guarantee of the long-term chemical stability of any compound.

Minimum Recommended Storage Conditions:

- Samples should be stored in an air tight container
- Store in cool & dry place not freeze, keep away from strong light and heat

CHEMICAL FORMULA: C₁₀H₁₆

MW: 136.23

Physical description : colorless liquid

CAS#: 80-56-8

HAZARDS: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel.



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INSTRUCTIONS FOR USE:

Do not dry , use as is. The internal pressure of container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of material. This material is intended for research and development use only. Not for drug, household or other uses.

ANALYSIS RESULT

Test Items	Specification	Test Results
Appearance	colorless liquid	Conforms
water (K F)	$\leq 0.1\%$	0.02%
Acid value (mg KOH/g)	≤ 0.5	0.2
Purity	$\geq 95.0\%$	97.3%
Conclusion	The above product conforms to specification	

NOTE: 1. Values of the results shown are based upon analysis of samples taken from this batch randomly.
2. Observed mass should be within 0.1% of expected mass.

HOMOGENEITY ASSESSMENT

Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by single factor analysis of variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. heterogeneity was not detected under the conditions of the ANOVA.

UNCERTAINTY STATEMENT

The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability , and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies.

Product description

intermediates;



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Intended Use

This product is intended for investigational use only and should not be used in humans. It is pharmaceutically unrefined, may contain uncharacterized toxic impurities, and is not intended for use in humans.

Origin: china

Caution

This information is provided as an indication of the quality of the underlying material when examined by a specific technique. The reported values are subject to normal experimental error and should be treated as estimates. The absence of undetected impurities cannot be guaranteed by this or any other general approach and this certificate does not certify the absence of such substances in the sample.

Analyst: 连俊昊

Supervisor: 李文

Signed: 科锐

Career Henan Chemical Co
Analytical Laboratory.
Building 3 of Innovation Park,
East District of the National University
Science Park of Henan Province

Manufactured and certified by Career Henan Chemical Co.

Reference material producer

testing