



CERTIFICATE OF ANALYSIS

20 Martin Ross Avenue, North York, ON, M3J 2K8, CANADA
Tel: (416) 665-9696, Fax: (416) 665-4439
Email: orders.trc@lgcgroup.com Website: www.trc-canada.com

1. Identification

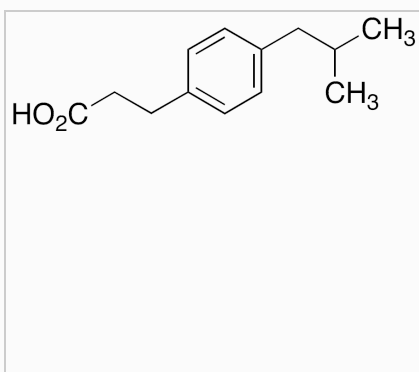
Catalogue Number: I780335

CAS Number: 65322-85-2

Product: 3-(4-Isobutylphenyl)propanoic Acid

Synonym: 4-(2-Methylpropyl)benzenepropanoic Acid; 3-(4'-Isobutylphenyl)propionic Acid; 3-(p-Isobutylphenyl)propionic Acid; Ibuprofen impurity F (EP); Ibuprofen EP Impurity F

Structure:



Molecular Formula:

C₁₃H₁₈O₂

Molecular weight:

206.28

Source of Product:

Synthetic

Solubility:

Chloroform (Slightly), Ethyl Acetate (Slightly)

Lot Number: 1-SKR-130-8

Purity: 98%

Shipping Condition: This Product Is Stable To Be Shipped At Room Temperature

Storage Condition: -20°C

2. Warning

Warning 1:

Warning 2:

Warning 3:

3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Pale Beige Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	99.15% (220 nm)
MS	Conforms to Structure	Conforms
Water Content	Report Result	4.9% by Karl Fischer
TGA	Report Result	See Additional Information
FT-IR	Conforms to Structure	Conforms

Additional Information:

The sample was tested by TGA, initiated in a nitrogen environment. The initial degradation onset temperature was measured at 167.6°C. The second degradation onset temperature was measured at 245.5°C. The environment was changed to air at 800.0°C. The sample had 0.1% of its weight remaining at 996.8°C.

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	Chanell Chu	7/26/2023	7/24/2027
				