## **Certificate of Analysis**

Structure:	
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Name	(2RS)-2-(4-ethylphenyl)propanoic acid
BP Name	Ibuprofen Impurity N
Synonym(s)	<i>p</i> -ethylhydratropic acid; 4-ethyl-α-methylbenzeneacetic acid; (2 <i>RS</i> )-2-( <i>p</i> -ethylphenyl)propionic acid; (2 <i>RS</i> )-2-(4-ethylphenyl)propionic acid
Epichem Item #	EPL-AA165 Batch 1
CAS#	3585-52-2
Molecular Formula	$C_{11}H_{14}O_2$
Molecular Weight	178.23 g/mol
Purity	99.6% (weight/weight).
	99.8% at 220 nm by HPLC (assuming all components have the same response factor).
	Trace impurity detected by <sup>1</sup> H NMR analysis.
	0.20% water by Karl-Fischer method. 0.04% ash.
Combustion Analysis	Required (%): C:74.1; H:7.9; N:0.0. Found (%): C:74.2; H:7.8; N:<0.05.
Appearance	White waxy solid
Melting Point	37.0-40.5°C
Date of Manufacture	2 March 2015
Storage Requirements	Protect from heat, light and moisture.
Special Precautions	This compound is for laboratory use only. Its toxicological properties may not have been fully established. It should be handled only by suitably qualified personnel.

John Moursounidis, PhD Head Fine Chemicals and Technical Services 26 April 2016