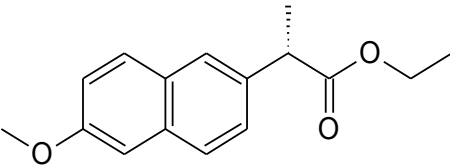


## Certificate of Analysis

<b>Structure:</b>	
	
Name	Ethyl (2 <i>S</i> )-2-(6-methoxynaphthalen-2-yl)propanoate
BP Name	Naproxen Impurity F
Synonym(s)	( <i>S</i> )-Naproxen ethyl ester; ( $\alpha$ <i>S</i> )-6-methoxy- $\alpha$ -methyl-2-naphthaleneacetic acid ethyl ester; ( <i>S</i> )-6-methoxy- $\alpha$ -methyl-2-naphthaleneacetic acid ethyl ester; (+)-Naproxen ethyl ester; Naproxen ethyl ester.
Epichem Item #	EPL-AA175 Batch 1
CAS #	31220-35-6
Molecular Formula	C <sub>16</sub> H <sub>18</sub> O <sub>3</sub>
Molecular Weight	258.31 g/mol
Purity	99.9% (weight/weight). 100% at 220 nm by HPLC (assuming all components have the same response factor). No significant impurities detected by <sup>1</sup> H NMR analysis. 0.06% water by Karl-Fischer method. 0.01% ash.
Optical Purity	100% by HPLC; [ $\alpha$ ] <sub>D</sub> <sup>25.9</sup> +48 (c1.00, CHCl <sub>3</sub> )
Combustion Analysis	Required (%): C:74.4; H:7.0; N:0.0. Found (%): C:74.3; H:7.0; N:0.0.
Appearance	White crystals
Melting Point	82.1-83.9°C
Date of Manufacture	26 August 2015
Storage Requirements	Protect from heat, light and moisture.
Special Precautions	<b>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.</b>