




## ETHYL FORMATE FOR SYNTHESIS

<b>PRODUCT CODE</b>	<b>R09319</b>	
<b>SYNONYMS</b>	Formic acid ethyl ester	
<b>C.I. NO.</b>	N/A	
<b>CASR NO.</b>	109-94-4	
<b>ATOMIC OR MOLECULAR FORMULA</b>	C <sub>3</sub> H <sub>6</sub> O <sub>2</sub>	
<b>ATOMIC OR MOLECULAR WEIGHT</b>	74.08	
<b>PROPERTIES</b>	---	
<b>PARAMETER</b>	<b>LIMIT</b>	
Description	Clear & colourless liquid.	
Minimum assay (By GC)	98.0%	
Wt. per ml at 20°C	0.919 – 0.921 g	
Refractive index (n) <sub>D</sub> <sup>20</sup>	1.359 – 1.360	
Boiling range	52 - 55°C	
<b>MAXIMUM LIMIT OF IMPURITY</b>		
Ethanol (By GC)	2.0%	
<b>Note(s) : Assay (if applicable) method mentioned</b>		
<b>DANGER</b> <b>HAZARD STATEMENTS</b> :May cause respiratory irritation. Highly flammable liquid and vapour. Harmful if inhaled, Harmful if swallowed. Causes mild skin irritation. Causes serious eye irritation <b>PRECAUTIONARY STATEMENTS</b> <b>Prevention</b> :Do not eat, drink or smoke when using this product. Ground/bond container and receiving equipment. Use only non-sparking tools. Wash hands thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well ventilated area. Wear protective gloves and eye/face protection. Keep container tightly closed. Keep away from heat/sparks/open flame - No smoking. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. <b>Response</b> :IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. Wear eye/face protection. If skin irritation occurs, seek medical advice/attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Specific treatment: refer to Label or MSDS. Call a POISON CENTER or doctor/physician if you feel unwell. If on skin or hair: remove/take off immediately all contaminated clothing. Rinse with water/shower.		IMDG Code : 3/II UN No. :1190 IATA 3
<b>Disposal</b> :Allow to evaporate in safe open area (applicable for small quantities). The chemical should be burnt in a chemical incinerator equipped with burner and scrubber. If the volumes are larger than 500ml and no incinerator and site of evaporation is not available then transfer the waste chemical to waste solvent drum for collection by specialist disposal company.		
Hazard Pictogram(s) : <div style="display: flex; justify-content: center; gap: 20px;">   </div> <div style="display: flex; justify-content: center; gap: 20px; margin-top: 5px;"> <span>GHS02</span> <span>GHS07</span> </div>		

Replace Date 1 April 2023

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