

ETHYL ACETATE





Ethyl Acetate

Ethyl Acetate is a colourless liquid with fruity odour. It is soluble in most organic solvents such as alcohol, acetone, ether, chloroform etc. and slightly soluble in water it is highly effective and easily broken down in both air and water.

Jubilant Life Sciences can deliver green ethyl acetate made only from biologically produced ethanol to customers with highest environment standards.

Toxicity of Solvents

Ethyl Acetate being one of the least toxic solvent, it keeps application areas of solvents much environment friendly for usage of employees on the shop floor.

		Ethyl Acetate	Toluene	Methyl Ethyl Ketone	Acute	
Acute Oral Toxicity LD50, mg/kg	↑↓	4,100	↑	636	↓	2,737
Acute Toxicity of vapour LD50, mg/m ³	↑↓	45,000	↑	440	↓	32,000
Dermal toxicity LD50, ml/kg	↑↓	>20,000	↑	14,100	↓	6,480

*Lesser the values, higher the toxicity

*Toluene is 100 times more toxic than Ethyl Acetate, in terms of its vapour exposure as solvent application.

Chemical Information

Product IUPAC Name:
Ethyl Acetate

Systematic IUPAC Name:
Ethyl Ethanoate

Synonyms:
Acetic Ester; Ethyl Ester of Acetic Acid; Acetic Ether

Molecular Formula:
C₄H₈O₂

Molecular Weight:
88.1 g/mol

CAS Number:
141-78-6

Applications

Ethyl Acetate is your choice of solvent due to its least toxicity, agreeable odour and cost efficient. Due to its high evaporation rate it facilitates customised evaporation rate as per the requirement of process. These characteristics finds usage of ethyl acetate in wide range of applications like:

- Ink
- Surface coating and thinner
- Flexible packaging
- Adhesives
- Rubber and polymers
- Pharmaceuticals
- Flavours and essences
- Nail polish remover
- Decaffeinating of Tea and Coffee

ETHYL ACETATE

- Least toxic among solvents
- Eye, Nose and Throat irritant

TOLUENE

- Immediate effects are more severe than other solvents at high exposure
- Cause damage to Kidney and Liver

KETONES

- Cause narcosis and irritation to the eye and upper respiratory tract at high concentration
- Cause defatting of the skin upon prolonged exposure resulting in dry, scaly, cracked skin

Photochemical SMOG

- Ethyl Acetate in comparison with other solvents like Toluene, Xylene, MIBK and MEK, emits much lesser amount of VOC (Volatile Organic Compounds)
- Higher emission of VOC generates more Ozone at ground level (troposphere), which facilitate photochemical smog along with other pollutants like NOx and hence reduce air quality available for breathing
- SMOG also reduces visibility at ground level

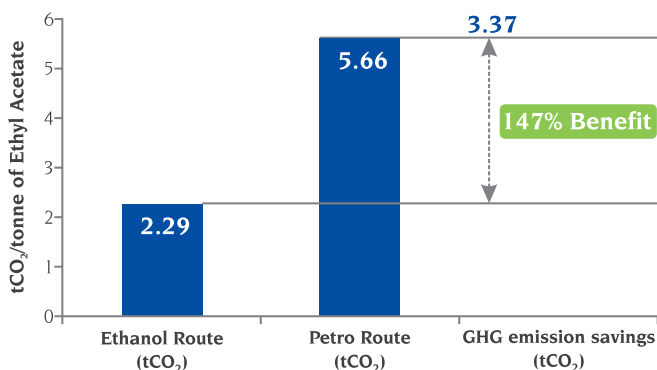
Relative Evaporation Rate

- Better relative evaporation rate of Ethyl Acetate make it solvent of choice as it can help to achieve customised evaporation rate as per the requirement of manufacturer
- Better relative evaporation rate of Ethyl Acetate makes it an efficient solvent
- Higher evaporation rate is beneficial for applications where fast turnaround is desirable

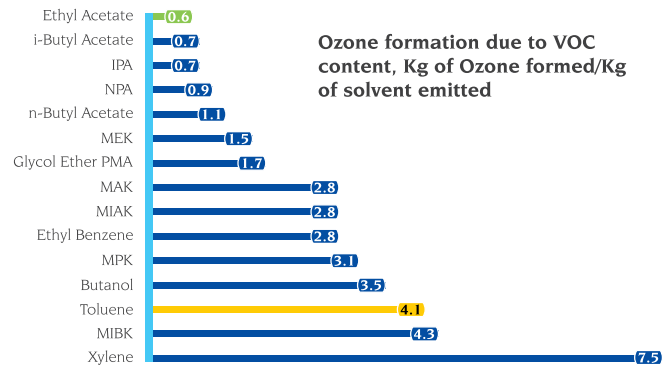
Carbon Footprint

Using Ethyl Acetate produced by Jubilant will help you to make your supply chain greener.

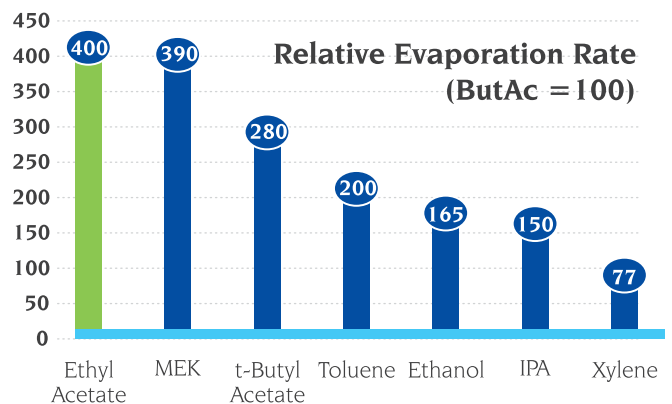
JLL saves estimated 3.37 tonne CO₂ per tonne of Ethyl Acetate Production



Source: Estimation of Carbon footprint carried out by E&Y

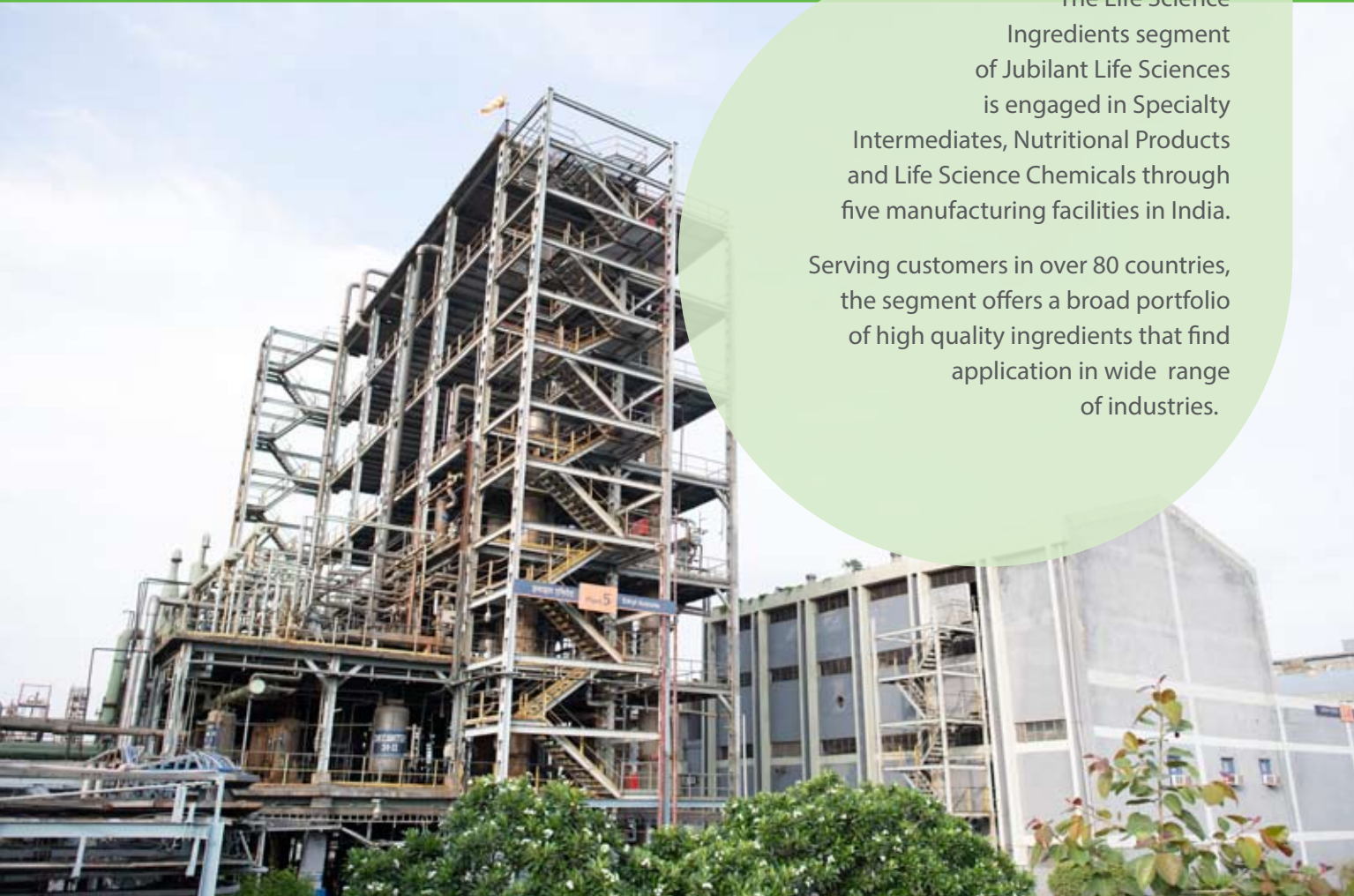


Source: Based on Dr. William Carter's SAPRC - 99 model



Source: Based published data





The Life Science
Ingredients segment
of Jubilant Life Sciences
is engaged in Specialty
Intermediates, Nutritional Products
and Life Science Chemicals through
five manufacturing facilities in India.

Serving customers in over 80 countries,
the segment offers a broad portfolio
of high quality ingredients that find
application in wide range
of industries.

MANUFACTURING FACILITIES

UTTAR PRADESH

• Gajraula

GUJARAT

• Bharuch
• Samlaya

MAHARASHTRA

• Nira
• Ambernath

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