

Ryan Davies

Qualifications

MSci Chemistry (Hons)
King's College London, UK

Affiliations

Associate Member of the Royal Society of Chemistry
(AMRSC)

Year of Birth

1999

Nationality

British

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Current Position at CWA

Ryan Davies joined CWA International in 2022 after completing his master's degree in Chemistry at King's College London. His master's thesis was on the total synthesis of natural product antibiotics, with a focus on optimising the chemical synthetic route for pyrrolomycin J.

Ryan has a broad knowledge of chemistry including synthetic organic chemistry, separation science & spectroscopic techniques, catalysis and molecular interactions. He gained valuable laboratory experience during his degree which included practical use of a variety of spectroscopic techniques including nuclear magnetic resonance (NMR), infrared (IR) and UV-vis spectroscopy. Owing to Ryan's organic chemistry background, he also has experience in handling moisture & air sensitive reactions using standard separation and purification methods.

Specific Expertise and Experience

Process Materials and Cargoes

Ryan has experience advising on contamination/ degradation issues involving a number of cargoes, including Gas carrier cargoes such as: Butadiene; LPG-Propane/Butane; Chemical carrier cargoes such as: Benzene; Phenol; Styrene monomer (SM); Vinyl Acetate Monomer (VAM); Acetic Acid; Acetone; Methyl Ethyl Ketone (MEK); Ethyl Acetate; Methanol; Ethanol; Mono- and Di-ethylene Glycol (MEG and DEG); Urea Ammonium Nitrate (UAN) solution; Vegetable oil cargoes including: Sunflower seed, Coconut and Palm oil products; Acid and Base cargoes including: Phosphoric Acid; Caustic Soda solution (CSS); Petroleum cargoes including: Jet A1; Gasoil; Gasoline; Naphtha, Marine Fuel Oils; Base oils; and Bulk Solid chemical cargoes including: Purified Terephthalic Acid (PTA); calcium salts of palm fatty acids; and Palm oil fats.

Page 1 of 2

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Field Attendances

Ryan has attended Gas carriers, Oil/Chemical tankers, and numerous laboratories worldwide. Attendance assignments include Thurrock, Liverpool, Middlesbrough, Cardiff, Antwerp, Rotterdam, Europort, Le Havre, Kalamata, Athens, Aliaga, Suez, Malaysia, Singapore, and Buenos Aires. Attendances in Europe, Africa, and Asia have involved investigation of alleged contamination incidents, oversight of filtration and ship-to-ship (STS) transfer operations, participation in joint cargo and bunker fuel sampling exercises, and warehouse inspections of bulk solid chemical cargoes.

Ryan is also experienced in the test methods and analysis associated with a wide range of fuels and cargoes, including ISO 8217 bunker fuel testing.