

Classic Glassware

Introduction

The flexiWAVE has been thought and engineered as a 'microwave platform', where all types of commonly used glassware could be used.

This clearly results in a very flexible system, with a wide range of applications capabilities.

The Classic Glassware setup, for instance, provides the suitable apparatus for a full reaction optimization, for research or teaching purposes.

It allows the chemists to perform synthetic reactions under reflux and, in this manner, any chemical reaction currently carried out with hot plates, heating mantles or oil baths, could be rapidly improved by adopting microwave technology.

Edited by Diego Camaroglio, Ph.D.

Please contact Milestone at synthesis@milestonesrl.com for detailed information about this library of scientific papers

References

CG 1

Gellis, A., Boufatah, N., Vanelle, P.

Rapid microwave-promoted synthesis of new sulfonylmethylbenzothiazoles in water

Green Chem., 2006, 8, 483–487

CG 2

Razzaq, T., Kappe, C. O.

Rapid preparation of pyranoquinolines using microwave dielectric heating in combination with fractional product distillation

Tetrahedron Letters, 2007, 48, 2513–2517

CG 3

Marek, A., Kulhanek, J., Ludwig, M., Bures, F.

Facile Synthesis of Optically Active Imidazole Derivatives

Molecules 2007, 12, 1183-1190

CG 4

Selvakumar, P., Sarojadevi, M., Sundararajan, P.

Synthesis, characterization and microwave-enhanced polymerization of a phthalonitrile resin

Materials Science and Engineering B, 2010, 168, 214–218

CG 5

Mohammad Hakimi, M., Moeini, K., Mardani, Z., Mohr, F.

Microwave-assisted template synthesis of diazacyclam-based macrocyclic copper complex and forming octahedral, square planar and square pyramidal geometries by ion exchanging and introducing a novel 2D square-grid copper–mercury coordination polymer

Polyhedron, 2014, 70, 92–100

CG 6

Silvio Aime, S., Gianolio, E., Arena, F., Barge, A., Martina, K., Heropoulos, G., Cravotto, G.

New cyclodextrin dimers and trimers capable of forming supramolecular adducts with shape-specific ligands

Org. Biomol. Chem., 2009, 7, 370–379

CG 7

Gellis, A., Kovacic, H., ne Boufatah, N., Vanelle, P.

Synthesis and cytotoxicity evaluation of some benzimidazole-4,7-diones as bioreductive anticancer agents

European Journal of Medicinal Chemistry, 2008, 43, 1858-1864

CCG 8

Toque, H. A. F., Priviero, F. B. M., Teixeira, C. E., Perissutti, E., Fiorino, F., Severino, B., Frecentese, F., Lorenzetti, R., Baracat, J. S., Santagada, V., Caliendo, G., Antunes, E., De Nucci, G.

Synthesis and Pharmacological Evaluations of Sildenafil Analogues for Treatment of Erectile Dysfunction

J. Med. Chem., 2008, 51, 2807–2815

CG 9

Brunel, R., Marestin, C., Martin, V., Mercier, R., Schiets, F.

Assisted Microwave Synthesis of High Molecular Weight Poly(ArylEtherKetone)s

High Performance Polymers, 2008, 20, 185–207

CG 10

Stadler, A., Kappe, C. O.

The effect of microwave irradiation on carbodiimide-mediated esterifications on solid support

Tetrahedron, 2001, 57, 3915-3920

CG 11

Leyre Sillero a, Raquel Prado b, Jalel Labidi a,*

Simultaneous microwave-ultrasound assisted extraction of bioactive compounds from bark

Chemical Engineering & Processing: Process Intensification 156 (2020) 108100

CG12

Leyre Sillero a, Raquel Prado b, Tom Welton b, Jalel Labidi

Energy and environmental analysis of flavonoids extraction from bark using alternative solvents

Journal of Cleaner Production 308 (2021) 127286

CG13

Moina Athar, Sameer Imdad, Sadaf Zaidi, Mohammad Yusuf, Hesam Kamyab, Jiří Jaromír Kleměš, Shreeshivadasan Chelliapan

Biodiesel production by single-step acid-catalysed transesterification of Jatropha oil under microwave heating with modelling and optimisation using response surface methodology

Fuel 322 (2022) 124205