

α -Pineno

RMN¹³C

Coxon JM, Hydes GJ, Steel PJ. 1984. Carbon-13 nuclear magnetic resonance spectra of pinane monoterpenoids. J Chem Soc Perkin Transa 2 8: 1351-1355.

IR

Polavarapu PL, Bose PK, Rilling AJ, Buijs H, Roy JR. 2002. Development and evaluation of a polarization-division interferometer with cube corner mirrors. Applied Spectroscopy 56(12): 1626-1632.

IR

An P, Yuan CQ, Liu XH, Xiao DB, Luo ZX. 2016. Vibrational spectroscopic identification of isoprene, pinenes and their mixture. Chin Chem Lett 27(4): 527-534.

EMIE, P.E.

Won MM, Cha EJ, Yoon OK, Kim NS, Kim K, Lee DS. 2009. Use of headspace mulberry paper bag micro solid phase extraction for characterization of volatile aromas of essential oils from Bulgarian rose and Provence lavender. Anal Chim Acta 631(1): 54-61.

NAD Q-COSY

Lesot P, Sarfati M, Courtieu J. 2003. Natural abundance deuterium NMR spectroscopy in polypeptide liquid crystals as a new and incisive means for the enantiodifferentiation of chiral hydrocarbons. Chem Eur J 9(8): 1724-1745.

Excelente actividad LC₅₀ = 2.77 mg/cm² contra *Blattella germanica*; DL₅₀ = 218.17 mg/L

Jang YS, Yang YC, Choi DS, Ahn YJ. 2005. Vapor phase toxicity of marjoram oil compounds and their related monoterpenoids to *Blattella germanica* (Orthoptera: Blattellidae). J Agric Food Chem 53(20): 7892-7898.

CMI contra *Staphylococcus aureus* 7.5 mg/mL, contra *Staphylococcus epidermidis* 9.5 mg/mL, contra *Escherichia coli* 2 mg/mL, contra *Enterobacter cloacae* 15 mg/mL, contra *Klebsiella pneumoniae* 8 mg/mL, contra *Pseudomonas aeruginosa* 6 mg/mL, contra *Candida albicans* 4 mg/mL, contra *Candida tropicalis* 4 mg/mL, contra *Candida glabrata* 2 mg/mL.

Aligiannis N, Kalpoutzakis E, Kyriakopoulou I, Mitaku S, Chinou IB. 2004. Essential oils of *Phlomis* species growing in Greece: Chemical composition and antimicrobial activity. Flavour and Fragrance Journal 19(4): 320-324.

P.E.

Ribes A, Carrera G, Gallego E, Roca X, Berenguer MJ, Guardino X. 2007. Development and validation of a method for air-quality and nuisance odors monitoring of volatile organic compounds using multi-sorbent adsorption and gas chromatography/mass spectrometry thermal desorption system. J Chromatogr A 1140(1-2): 44-55.