

Properties of MTBE and other oxygenates. Ali, Mohammad Ashraf; Hamid, Halim. Research Institute, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. Chemical Industries (Dekker) (2004), 101 (Handbook of MTBE and Other Gasoline Oxygenates), 19-35. Publisher: Marcel Dekker, Inc., New York, N. Y. CODEN: CHEIDI Conference; General Review written in English. CAN 141:9269 AN 2004:429245 CAPLUS (Copyright (C) 2008 ACS on SciFinder (R))

Abstract

A review. Ethers and alcs. were used as blends in gasoline to increase the octane no. and to reduce air pollution problems. These oxygenated compds. were used to substitute tetraalkyl lead on other metal-contg. compds. The properties, due to the use as gasoline additive, of Me tert-Bu ether (MTBE), Et tert-Bu ether (ETBE), tertiary amyl Me ether (TAME), tertiary amyl Et ether (TAEE), diisopropyl ether (DIPE), methanol ethanol and tertiary butanol are presented. Due to its phys., chem. and thermal properties MTBE was the most efficient of the gasoline additive oxygenates