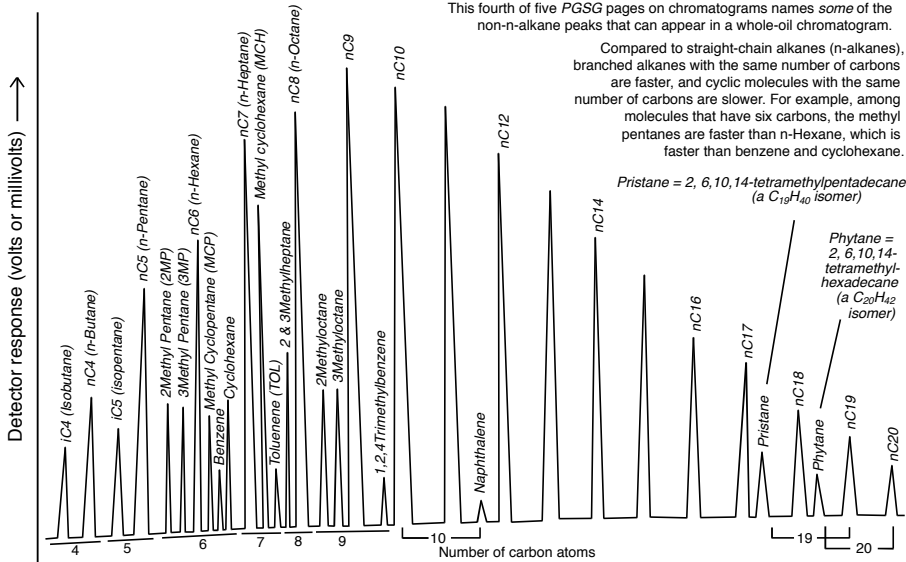


Chromatograms of petroleum IV: details of a whole-oil chromatogram



This fourth of five *PGSG* pages on chromatograms names *some* of the non-*n*-alkane peaks that can appear in a whole-oil chromatogram.

Compared to straight-chain alkanes (*n*-alkanes), branched alkanes with the same number of carbons are faster, and cyclic molecules with the same number of carbons are slower. For example, among molecules that have six carbons, the methyl pentanes are faster than *n*-Hexane, which is faster than benzene and cyclohexane.

Pristane = 2, 6, 10, 14-tetramethylpentadecane
(a $C_{19}H_{40}$ isomer)

Phytane = 2, 6, 10, 14-tetramethylhexadecane
(a $C_{20}H_{42}$ isomer)