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Gmelin Handbook of Inorganic and Organometallic Chemistry, 8th edition, Molybdenum, Supplement Volume B9, Compounds with Se, Te, Po (G.J. Leigh), C20

Gmelin Handbook of Inorganic and Organometallic Chemistry, 8th edition, Rare Earth Elements, Volume 12b, Sc, Y, La-Lu, Compounds with Carbon (G.J. Leigh), C20

Inorganic Chemistry, 2nd edition, D.F. Shriver, P.W. Atkins and C.H. Langford (G.J. Leigh), C21

Progress in Inorganic Chemistry, Volume 42, K.D. Karlin (Ed.) (G.J. Leigh), C21