



>>Entry Name: Bis(2-methylpropyl) phosphonate, 9Cl

Synonym(s): Diisobutyl phosphonate, 8Cl. Bis(2-methylpropyl) phosphite. Diisobutyl phosphite. Isobutyl phosphonate

CAS Registry Number: 1189-24-8

$[(\text{H}_3\text{C})_2\text{CHCH}_2\text{O}]_2\text{P}(\text{O})\text{H} \rightleftharpoons [(\text{H}_3\text{C})_2\text{CHCH}_2\text{O}]_2\text{POH}$

Molecular Formula: $\text{C}_8\text{H}_{19}\text{O}_3\text{P}$

Molecular Weight: 194.21

Accurate Mass: 194.107182

Percentage Composition: C 49.48%; H 9.86%; O 24.71%; P 15.95%

General Statement: Tautomeric; almost completely in phosphonate form

Use/Importance: Extractant for rare earth metals from HNO_3 solns.

Physical Description: Liq.

Boiling Point: Bp_7 108-109°

Refractive Index: n_D^{20} 1.4195

References:

Coulson, E.J. *et al.*, *J.C.S.*, 1965, 2364, (*synth*)