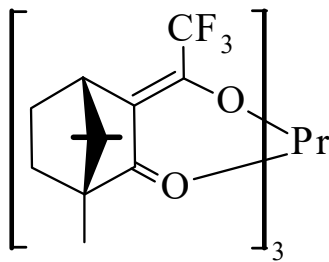




>>Entry Name: **Tris(3-trifluoroacetyl-*d*-camphorato)praseodymium(III)**

Synonym(s): Tris[1,7,7-trimethyl-3-(trifluoroacetyl)bicyclo[2.2.1]heptan-2-onato-*O,O'*]praseodymium, 9Cl. Tris[3-(trifluoromethylhydroxymethylene)-*d*-camphorato]praseodymium(III). Pr(facam)₃. Pr(tfc)₃



CAS Registry Number: 38053-99-5

Molecular Formula: C₃₆H₄₂F₉O₆Pr

Molecular Weight: 882.617

Accurate Mass: 882.191314

Percentage Composition: C 48.99%; H 4.80%; F 19.37%; O 10.88%; Pr 15.96%

Use/Importance: Nmr chiral shift reagent

Physical Description: Light-tan powder (hexane)

Melting Point: Mp 211.5-213.5°

Optical Rotation: [α]_D²⁰ +222 (c, 1.3 in CCl₄)

Other Data: A solvated form of indefinite Mp slowly dehydrates at 105° *in vacuo*. Hygroscopic, volatile

Aldrich: 17770-9

Fluka: 93388

Sigma: T5637

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 556C, (*ir*)

Feibush, B. *et al.*, *J.A.C.S.*, 1972, **94**, 6717, (*synth, glc*)

McCreary, M.D. *et al.*, *J.A.C.S.*, 1974, **96**, 1038, (*use*)

Goering, H.L. *et al.*, *J.A.C.S.*, 1974, **96**, 1493, (*synth, use*)