



>>Entry Name: Ytterbium(III) fluoride (YbF₃)

CAS Registry Number: 13760-80-0
YbF₃

Molecular Formula: F₃Yb
Molecular Weight: 230.035
Accurate Mass: 228.930587
Percentage Composition: F 24.78%; Yb 75.22%

Source/Synthesis: Ppts. from soln. as hydrate
Use/Importance: Solns. with other fluoride studied for ir → vis. up conversion
Physical Description: White solid
Melting Point: Mp 1162° (1157°)
Boiling Point: Bp 2200°
Solubility: Insol. H₂O

Aldrich: 43212-1

References:

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Thoma, R.E. *et al.*, *Inorg. Chem.*, 1966, **5**, 1937, (*struct*)
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Brauer, G., *Handbuch Prap. Anorg. Chem.*, 3rd edn., Ferdinand Enke Verlag, 1975, **1**, 254, (*synth*)
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