

Data curation: Melting point

1. Phase 1:

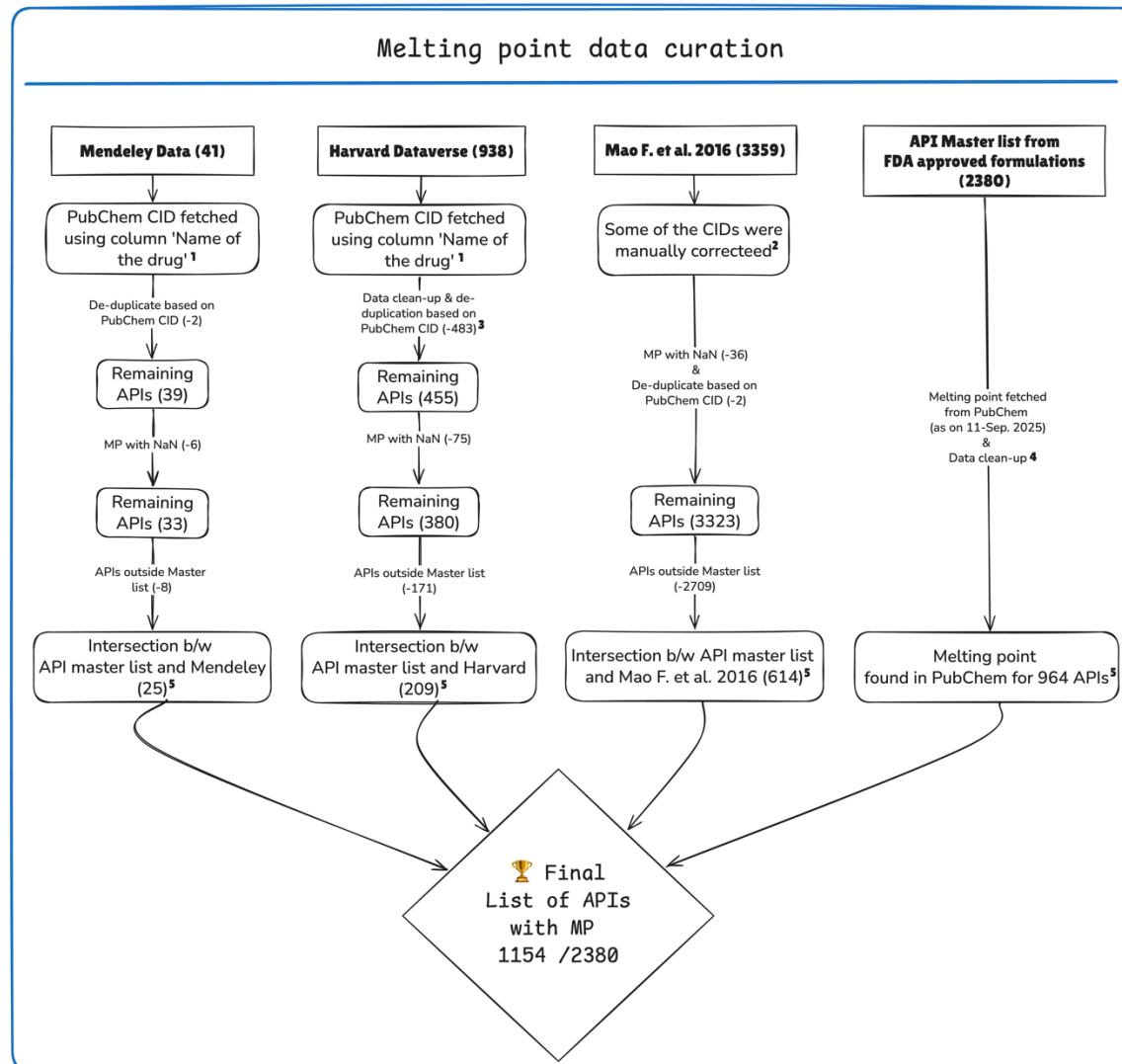
Curation of experimentally determined properties of APIs

i. Melting point:

Curated melting point from 4 different public sources viz. [Mendeley data](#) (25 data points), [Harvard dataverse](#) (209 data points), a publication by [Mao. F., et al. 2016](#) (614 data points), and [PubChem](#) (964 data points).

The data available in the PubChem is an aggregation of multiple sources e.g. for [aspirin MP data](#) is gathered from 6 different sources along with references.

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Notes:

1 = The original dataset does not contain PubChem CIDs. The CIDs were fetched using API names from the respective columns. Using [PUG REST API](#).

2 = Some CIDs were incorrect and hence were manually corrected, and missing CIDs were fetched from PubChem using name of API

3 = Data clean-up was done to remove entries with "#VALUE!", "Not specified", absence of API names etc."

4 = Data cleanup was challenging, used Gemini 2.5 Pro LLM and designed 24 different prompts

5 = PubChem CIDs used to match with API of Master list (2380)