

$T(^{\circ}C) - t$ data for C_6H_{12} :

group1

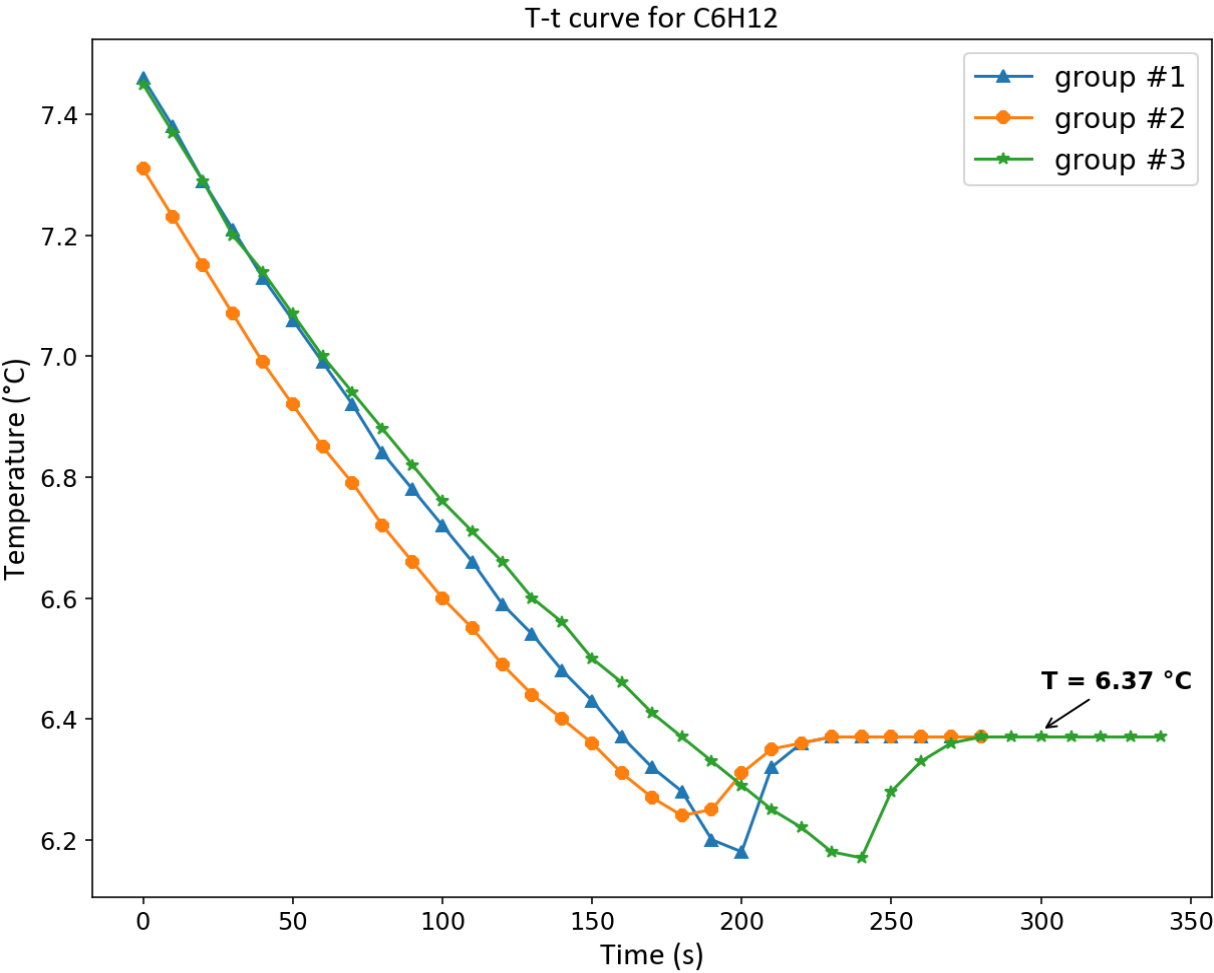
7.46	7.38	7.29	7.21	7.13	7.06	6.99	6.92	6.84	6.78	6.72	6.66	6.59	6.54
6.48	6.43	6.37	6.32	6.28	6.2	6.18	6.32	6.36	6.37	6.37	6.37	6.37	6.37

group2

7.31	7.23	7.15	7.07	6.99	6.92	6.85	6.79	6.72	6.66	6.6	6.55	6.49	6.44	6.4
6.36	6.31	6.27	6.24	6.25	6.31	6.35	6.36	6.37	6.37	6.37	6.37	6.37	6.37	6.37

group3

7.45	7.37	7.29	7.2	7.14	7.07	7.0	6.94	6.88	6.82	6.76	6.71	6.66	6.6	6.56	6.5	6.46	6.41
6.37	6.33	6.29	6.25	6.22	6.18	6.17	6.28	6.33	6.36	6.37	6.37	6.37	6.37	6.37	6.37	6.37	6.37

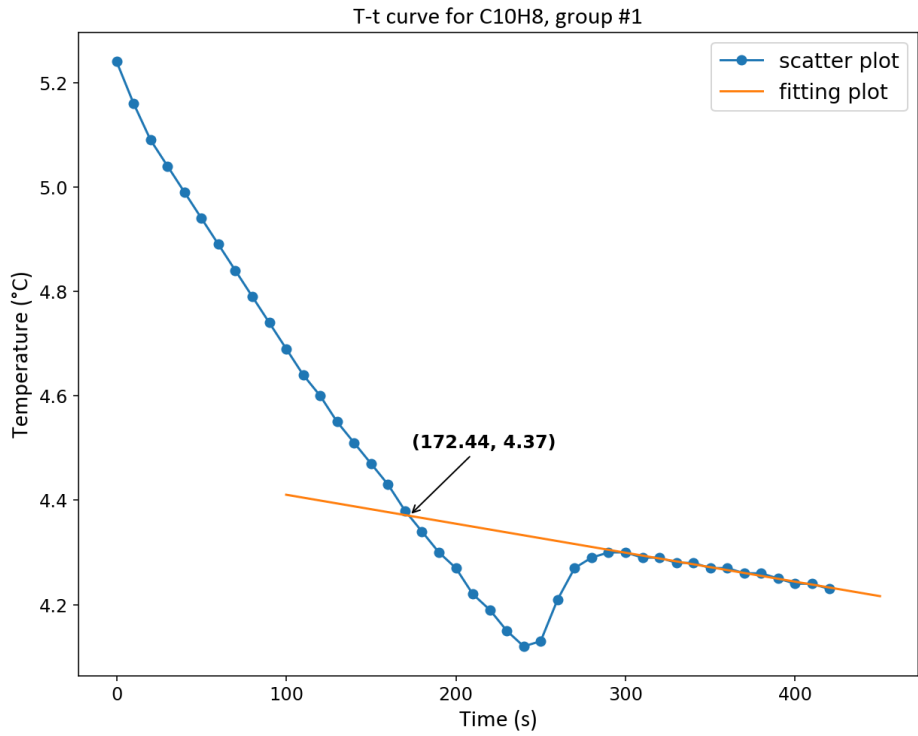


环己烷的凝固点为 $6.37^{\circ}C$

$T(^{\circ}C) - t$ data for $C_{10}H_8$ (in C_6H_{12}):

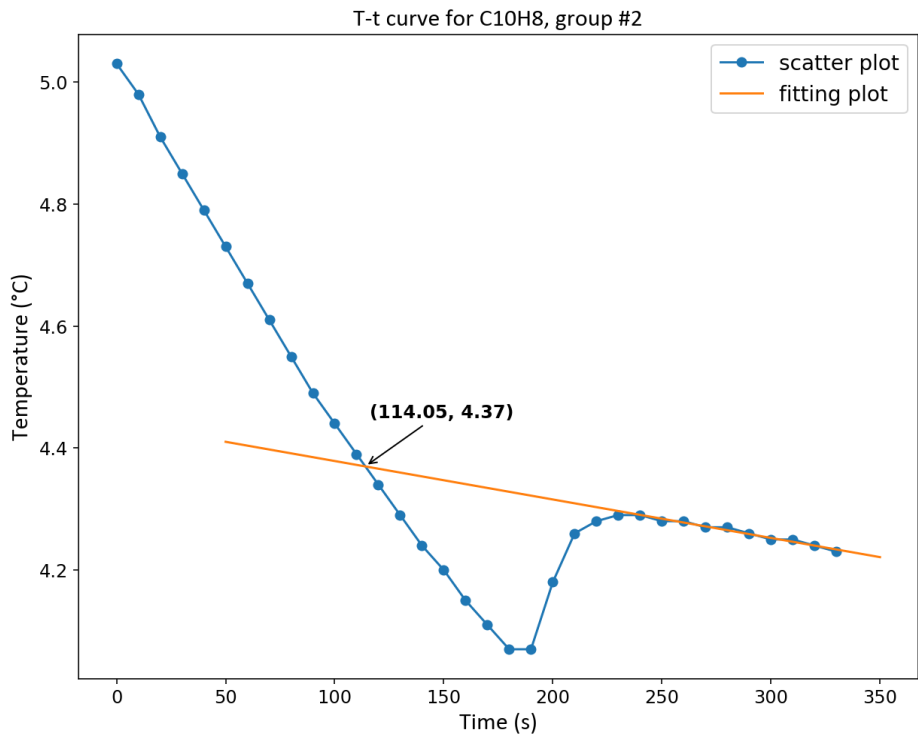
group1

5.24	5.16	5.09	5.04	4.99	4.94	4.89	4.84	4.79	4.74	4.69	4.64	4.6	4.55	4.51
4.47	4.43	4.38	4.34	4.3	4.27	4.22	4.19	4.15	4.12	4.13	4.21	4.27	4.29	4.3
4.3	4.29	4.29	4.28	4.28	4.27	4.27	4.26	4.26	4.25	4.24	4.24	4.23		



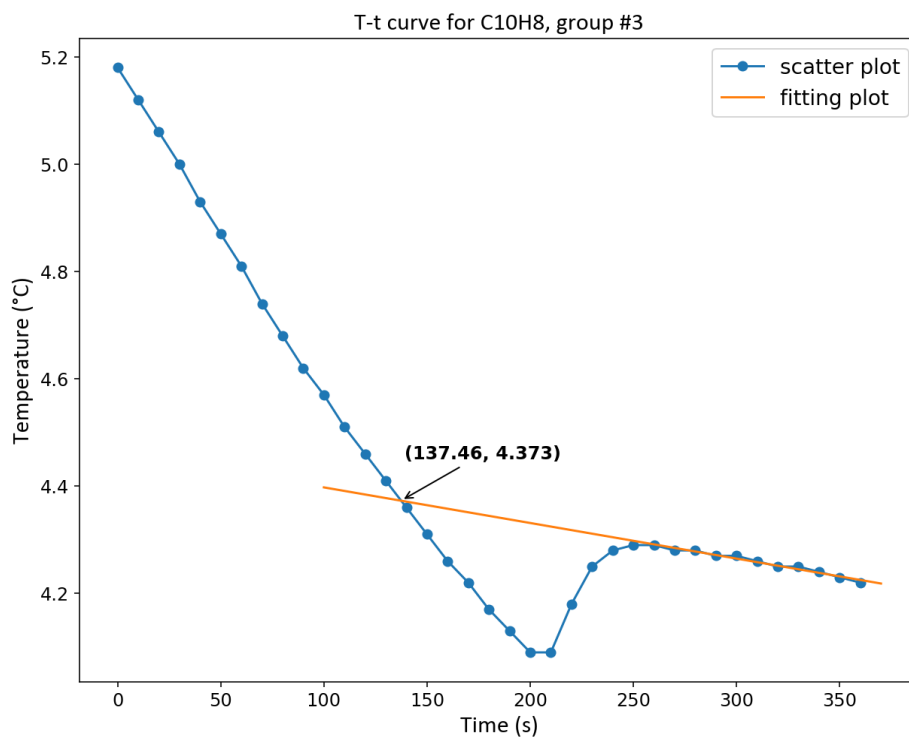
group2

5.03	4.98	4.91	4.85	4.79	4.73	4.67	4.61	4.55	4.49	4.44	4.39	4.34	4.29	4.24	4.2	4.15
4.11	4.07	4.07	4.18	4.26	4.28	4.29	4.29	4.28	4.28	4.27	4.27	4.26	4.25	4.25	4.24	4.23



group3

5.18	5.12	5.06	5.0	4.93	4.87	4.81	4.74	4.68	4.62	4.57	4.51	4.46	4.41	4.36	4.31	4.26	4.22	4.17
4.13	4.09	4.09	4.18	4.25	4.28	4.29	4.29	4.28	4.28	4.27	4.27	4.26	4.25	4.25	4.24	4.23	4.22	



$$\Delta T = T_f - \overline{T_f^*} = 6.37^\circ\text{C} - \frac{1}{3}(4.37 + 4.37 + 4.373)^\circ\text{C} = 1.999^\circ\text{C}$$

再根据

$$M_B = K_f \frac{1000m_B}{\Delta T_f m_A} = 128.22 \text{ g/mol}$$

萘的摩尔质量（真实值）为 128.18 g/mol , 相对误差为 0.31% .