



>>Entry Name: Rubidium chloride, 8Cl

Synonym(s): Cardiogen

CAS Registry Number: 7791-11-9

Related CAS Registry Numbers(s): 21031-72-1 132486-03-4

RbCl

Molecular Formula: ClRb

Molecular Weight: 120.92

Accurate Mass: 119.880646

Percentage Composition: Cl 29.32%; Rb 70.68%

Source/Synthesis: Prepd. by slow neutralisation of Rb_2CO_3 with aq. HCl

Use/Importance: Antidepressant

Physical Description: Colourless cubic cryst.

Melting Point: Mp 718°

Boiling Point: Bp 1390°

Solubility: V. sol. H_2O (77 g per 100 cm^3 at 0°; 139 g per 100 cm^3 at 100°); sol. MeOH (1.4 g per 100 cm^3 at 25°); spar. sol. EtOH (0.08 g per 100 cm^3 at 25°)

Other Data: $\Delta H_f^\circ -435 \text{ kJ mol}^{-1}$; $\Delta G_f^\circ -408 \text{ kJ mol}^{-1}$; $S^\circ 96 \text{ J K}^{-1} \text{ mol}^{-1}$. ^{82}Rb and ^{86}Rb labelled compds. are used as radioactive diagnostic agents (Rubidium chloride Rb 82, USAN, Rubidium chloride Rb 86, USAN)

Hazard & Toxicity: LD₅₀ (mus, orl) 3800 mg/kg. LD₅₀ (mus, ipr) 1625 mg/kg

Aldrich: 20425-0

Fluka: 83979

Sigma: R2252

References:

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