



**>>Entry Name: Dibutoline(1+)**

**Synonym(s):** Ethyl(2-hydroxyethyl)dimethylammonium bis(dibutylcarbamate), 8Cl. (2-Dibutylcarbamoyloxyethyl)ethyldimethylammonium. Dibuline



**Molecular Formula:**  $\text{C}_{15}\text{H}_{33}\text{N}_2\text{O}_2^{(+)}$

**Molecular Weight:** 273.438

**Accurate Mass:** 273.254203

**Percentage Composition:** C 65.89%; H 12.16%; N 10.24%; O 11.70%

**Use/Importance:** Anticholinergic, antispasmodic agent

**>>Derivative:** Sulfate (2:1)

**Synonym(s):** D6

**CAS Registry Number:** 532-49-0

**Molecular Formula:**  $\text{C}_{30}\text{H}_{66}\text{N}_4\text{O}_8\text{S}$

**Molecular Weight:** 642.939

**Accurate Mass:** 642.460136

**Percentage Composition:** C 56.04%; H 10.35%; N 8.71%; O 19.91%; S 4.99%

**Physical Description:** Hygroscopic powder

**Melting Point:** Mp 166 dec.°

**Other Data:** Aq. solns. stable for 1 year

**Hazard & Toxicity:** LD<sub>50</sub> (rat, ipr) 22 mg/kg

**>>Derivative:** Iodide

**CAS Registry Number:** 614-12-0

**Molecular Formula:**  $\text{C}_{15}\text{H}_{33}\text{IN}_2\text{O}_2$

**Molecular Weight:** 400.342

**Accurate Mass:** 400.158676

**Percentage Composition:** C 45.00%; H 8.31%; I 31.70%; N 7.00%; O 7.99%

**Melting Point:** Mp 76.5-78°

**Other Data:** Darkens on exp. to light

**References:**

*U.S. Pat.*, 1946, 2 408 893; *CA*, **41**, 775c, (*synth, pharmacol*)

Kent, L.J., *Ariz. Med.*, 1950, **7**, 31, (*rev*)

*Martindale, The Extra Pharmacopoeia*, 28th/29th edn., *Pharmaceutical Press*, 1982, 359

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., *Van Nostrand Reinhold*, 1992, DDW000