



>>Entry Name: Neptamustine, INN

Synonym(s): *N*-(2-Chloroethyl)-*N'*-(2,2-dimethylpropyl)-*N*-nitrosourea, 9Cl. Pentamustine, USAN. Salisburystin. NCNU

CAS Registry Number: 73105-03-0

$(\text{H}_3\text{C})_3\text{CCH}_2\text{NHCON}(\text{NO})\text{CH}_2\text{CH}_2\text{Cl}$

Molecular Formula:  $\text{C}_8\text{H}_{16}\text{ClN}_3\text{O}_2$

Molecular Weight: 221.686

Accurate Mass: 221.093104

Percentage Composition: C 43.34%; H 7.27%; Cl 15.99%; N 18.95%; O 14.43%

Use/Importance: Antineoplastic agent

Physical Description: Yellow cryst.

Development Status: Never marketed

Melting Point: Mp 52-53 dec.°

Calculated Log P Data: Log P 2.58 (calc)

#### References:

*Ger. Pat.*, 1981, *National Foundation for Cancer Research*, 3 020 498; *CA*, **95**, 6551p, (*synth, pharmacol*)

*Martindale, The Extra Pharmacopoeia*, 28th/29th edn., *Pharmaceutical Press*, 1982, 13091