

# Chloroxine

<b>Other names:</b>	5,7-Dichlor-8-hydroxychinolin 5,7-Dichloro-8-Hydroxyquinoline 5,7-Dichloro-8-hydroquinoline 5,7-Dichloro-8-oxyquinoline 5,7-Dichloro-8-quinolinol 5,7-Dichlorooxine 5,7-Dichloroxine 5,7-dichloroquinolin-8-ol 8-Quinolinol, 5,7-dichloro- CHQ Capitrol Chlofucid Chloroxyquinoline Chlorquinol Clofuzid Dichlorohydroxyquinoline Dichloroquinolinol Dichloroxin Dikhloroskin Endiaron NSC 3904 Quesyl Quinolor Quixalin
<b>Inchi:</b>	InChI=1S/C9H5Cl2NO/c10-6-4-7(11)9(13)8-5(6)2-1-3-12-8/h1-4,13H
<b>InchiKey:</b>	WDFKMLRRRCGAKS-UHFFFAOYSA-N
<b>Formula:</b>	C9H5Cl2NO
<b>SMILES:</b>	Oc1c(Cl)cc(Cl)c2cccnc12
<b>Mol. weight [g/mol]:</b>	214.05
<b>CAS:</b>	773-76-2

## Physical Properties

Property code	Value	Unit	Source
chs	-4145.30 ± 1.30	kJ/mol	NIST Webbook
hf	-48.80 ± 1.90	kJ/mol	NIST Webbook
hfs	-158.10 ± 1.80	kJ/mol	NIST Webbook

hsub	109.30 ± 0.70	kJ/mol	NIST Webbook
hsub	92.90 ± 0.80	kJ/mol	NIST Webbook
log10ws	-3.96		Crippen Method
logp	3.247		Crippen Method
mvol	134.780	ml/mol	McGowan Method
tt	452.15	K	Solid-Liquid Equilibrium of 5-Chloro-8-hydroxyquinoline and 5,7-Dichloro-8-hydroxyquinoline in Different Solvents and Mixing Properties of Solutions

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	106.30 ± 0.70	kJ/mol	358.50	NIST Webbook
hsubt	92.90	kJ/mol	378.00	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	2.39584e+01
Coeff. B	-1.11906e+04
Temperature range (K), min.	472.76
Temperature range (K), max.	600.13

## Sources

- McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>
- NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C773762&Units=SI>
- The Yaws Handbook of Vapor Pressure:** <https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>
- Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
- Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)
- Solubility of chloroxine in aqueous co-solvent mixtures of N,N-dimethylformamide, dimethyl sulfoxide, N-methyl-2-pyrrolidone and 1,4-dioxane: Determination, solvent effect and preferential solvation analysis:** <https://www.doi.org/10.1016/j.jct.2019.07.001>

**Cosolvency and Mathematical  
Modeling Analysis of Chloroxine in  
Solid-Liquid Equilibrium of  
5-Chloro-8-hydroxyquinoline and  
5,7-Dichloro-8-hydroxyquinoline in  
Different Solvents and Mixing  
Properties of Solutions:**

<https://www.doi.org/10.1021/acs.jced.8b00257>

<https://www.doi.org/10.1021/acs.jced.9b00028>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pvap:</b>	Vapor pressure
<b>tt:</b>	Triple Point Temperature

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