Quinoline, 7-chloro-2-methyl-

Other names:	7-Chloro-2-methyl-quinoline
	7-chloro-2-methylquinoline
	7-chloroquinaldine
Inchi:	InChI=1S/C10H8ClN/c1-7-2-3-8-4-5-9(11)6-10(8)12-7/h2-6H,1H3
InchiKey:	WQZQFYRSYLXBGP-UHFFFAOYSA-N
Formula:	C10H8ClN
SMILES:	Cc1ccc2ccc(Cl)cc2n1
Mol. weight [g/mol]:	177.63
CAS:	4965-33-7

Physical Properties

Property code	Value	Unit	Source
log10ws	-4.20		Crippen Method
logp	3.197		Crippen Method
mcvol	130.760	ml/mol	McGowan Method
tf	346.12	K	Research on the application of 7-chloro-quinaldine adducts in 7-chloro-quinaldine separation process

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	360.20	K	0.07	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4965337&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Research on the application of 7-chloro-quinaldine adducts in 7-chloro-quinaldine separation process:	https://www.doi.org/10.1016/j.jct.2019.02.002

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tbrp:	Boiling point at reduced pressure
tf:	Normal melting (fusion) point