

9(10H)-Acridone, 10-methyl-

Other names:	10-Methyl-9-acridanone
	10-Methylacridon
	10-methyl-9(10H)-acridinone
	10-methyl-9(10H)-acridone
	10-methylacridin-9(10H)-one
	10-methylacridin-9-one
	10-methylacridone
	9-Acridanone, 10-methyl-
	9-Hydro-l0-methyl-9-oxoacridine
	N-methyl-9-acridone
	N-methylacridone
Inchi:	InChI=1S/C14H11NO/c1-15-12-8-4-2-6-10(12)14(16)11-7-3-5-9-13(11)15/h2-9H,1H3
InchiKey:	XUVKSPPGPPFPQN-UHFFFAOYSA-N
Formula:	C14H11NO
SMILES:	Cn1c2ccccc2c(=O)c2ccccc21
Mol. weight [g/mol]:	209.25

Physical Properties

Property code	Value	Unit	Source
hf	88.34	kJ/mol	Cheméo Relay (1.0)
hvap	101.90	kJ/mol	Cheméo Relay (1.0)
ie	7.45	eV	Cheméo Relay (1.0)
log10ws	-4.46		Aqueous Solubility Prediction Method
logp	2.692		Crippen Method
mcvol	161.290	ml/mol	McGowan Method
tb	657.42	K	Cheméo Relay (1.0)
tf	480.25	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
---------------	-------	------	-----------------	--------

hvapt	123.80	kJ/mol	298.15	Experimental and computational thermochemical studies of acridone and N-methylacridone
-------	--------	--------	--------	--

Sources

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C719540&Units=SI>

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

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

Experimental and computational thermochemical studies of acridone and N-methylacridone: <https://www.doi.org/10.1016/j.jct.2017.11.002>

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/31-786-5/9-10H-Acridone-10-methyl.pdf>

Generated by Cheméo on 2026-07-23 21:45:47.339054993 +0000 UTC m=+354243.180940381.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.