

# 2(1H)-Quinolinone

<b>Other names:</b>	Carbostyryl «alpha»-Hydroxyquinoline «alpha»-Quinolone o-Aminocinnamic acid lactam 2(1H)-Quinolone 2-Hydroxyquinoline 2-Quinolinol 1H-Quinolin-2-one 2-Quinolinone 2-Quinolone NSC 156783
<b>Inchi:</b>	InChI=1S/C9H7NO/c11-9-6-5-7-3-1-2-4-8(7)10-9/h1-6H,(H,10,11)
<b>InchiKey:</b>	LISFMEBWQUVKPJ-UHFFFAOYSA-N
<b>Formula:</b>	C9H7NO
<b>SMILES:</b>	<chem>O=c1ccc2ccccc2[nH]1</chem>
<b>Mol. weight [g/mol]:</b>	145.16
<b>CAS:</b>	59-31-4

## Physical Properties

Property code	Value	Unit	Source
chs	-4397.10 ± 2.00	kJ/mol	NIST Webbook
hf	-25.50 ± 2.40	kJ/mol	NIST Webbook
hfs	-144.90 ± 2.30	kJ/mol	NIST Webbook
hsub	119.40 ± 0.60	kJ/mol	NIST Webbook
hsub	119.40 ± 0.60	kJ/mol	NIST Webbook
ie	8.40	eV	NIST Webbook
log10ws	-1.92		Crippen Method
logp	1.046		Crippen Method
mvol	110.300	ml/mol	McGowan Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	115.20 ± 0.60	kJ/mol	382.50	NIST Webbook

---

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C59314&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C59314&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## 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>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume

Latest version available from:

<https://www.chemeo.com/cid/65-319-6/2-1H-Quinolinone.pdf>

Generated by Cheméo on 2024-04-29 07:54:02.435530576 +0000 UTC m=+16666491.356107888.

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