

Fluorenone oxime

Other names:	9-Fluorenone oxime 9-oximinofluorene 9H-Fluoren-9-one, oxime 9H-fluoren-9-one oxime Fluoren-9-one, oxime Fluorenone-9-oxime
Inchi:	InChI=1S/C13H9NO/c15-14-13-11-7-3-1-5-9(11)10-6-2-4-8-12(10)13/h1-8,15H
InchiKey:	CRNNFEKVPRFZKJ-UHFFFAOYSA-N
Formula:	C13H9NO
SMILES:	ON=C1c2ccccc2-c2ccccc21
Mol. weight [g/mol]:	195.22
CAS:	2157-52-0

Physical Properties

Property code	Value	Unit	Source
hf	132.73	kJ/mol	Joback Method
hvap	71.11	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	2.894		Crippen Method
mcvol	147.200	ml/mol	McGowan Method
pc	3239.34	kPa	Joback Method
tb	734.37	K	Joback Method
tc	970.89	K	Joback Method

Temperature Dependent Properties

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

psub	1.75e-04	kPa	374.50	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique
psub	1.98e-04	kPa	376.60	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique
psub	2.31e-04	kPa	378.50	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique
psub	3.02e-04	kPa	382.60	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique
psub	3.17e-04	kPa	383.20	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique

psub	3.85e-04	kPa	386.20	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique
psub	4.28e-04	kPa	387.90	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique
psub	4.74e-04	kPa	389.90	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique
psub	6.13e-04	kPa	393.80	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique
psub	6.71e-04	kPa	395.20	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique

psub	8.16e-04	kPa	398.60	Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique
------	----------	-----	--------	--

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Vapor pressures and sublimation enthalpies of seven heteroatomic aromatic hydrocarbons measured using the Knudsen effusion technique:	https://www.doi.org/10.1016/j.jct.2010.01.014
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2157520&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
psub:	Sublimation pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

Latest version available from:

<https://www.chemeo.com/cid/90-885-0/Fluorenone-oxime.pdf>

Generated by Cheméo on 2025-12-05 20:46:23.145516818 +0000 UTC m=+4715780.675557472.

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