

2-Adamantanone oxime

Other names:	Tricyclo[3.3.1.1(3,7)-]decan-7-one, oxime Adamantanone oxime 2-Hydroxyiminoadamantane Adamantanone-2-oxime 2-Isonitrosoadamantane tricyclo[3.3.1.13,7]decanone oxime
Inchi:	InChI=1S/C10H15NO/c12-11-10-8-2-6-1-7(4-8)5-9(10)3-6/h6-9,12H,1-5H2
InchiKey:	RABVIFXMFZFITE-UHFFFAOYSA-N
Formula:	C10H15NO
SMILES:	ON=C1C2CC3CC(C2)CC1C3
Mol. weight [g/mol]:	165.23
CAS:	4500-12-3

Physical Properties

Property code	Value	Unit	Source
hf	-169.03	kJ/mol	Joback Method
hvap	58.28	kJ/mol	Joback Method
log10ws	-1.54		Crippen Method
logp	2.273		Crippen Method
mcvol	130.730	ml/mol	McGowan Method
pc	2979.54	kPa	Joback Method
tb	619.36	K	Joback Method
tc	832.46	K	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C4500123&Units=SI

Legend

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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