

(E)-N-Hydroxy-1-(4-methylphenyl)propanimine

Other names:	(1E)-1-(4-Methylphenyl)butan-1-one oxime
Inchi:	InChI=1S/C11H15NO/c1-3-4-11(12-13)10-7-5-9(2)6-8-10/h5-8,13H,3-4H2,1-2H3
InchiKey:	FPLHNGGABOAXNW-UHFFFAOYSA-N
Formula:	C11H15NO
SMILES:	CCCC(=NO)c1ccc(C)cc1
Mol. weight [g/mol]:	177.24

Physical Properties

Property code	Value	Unit	Source
hf	-125.11	kJ/mol	Joback Method
hvap	63.09	kJ/mol	Joback Method
log10ws	-2.51		Crippen Method
logp	2.973		Crippen Method
mcvol	153.640	ml/mol	McGowan Method
pc	2587.22	kPa	Joback Method
rinpol	1622.00		NIST Webbook
rinpol	1622.00		NIST Webbook
tb	651.48	K	Joback Method
tc	860.19	K	Joback Method

Sources

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=U373425&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

hf: Enthalpy of formation at standard conditions

h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log10 of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
p_c:	Critical Pressure
r_{inpol}:	Non-polar retention indices
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature

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